

International Abstract of Surgery

SUPPLEMENTARY TO

Surgery, Gynecology and Obstetrics

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Volume XLIV January to June, 1927

PUBLISHED BY
THE SURGICAL PUBLISHING COMPANY OF CHICAGO
54 FAST ERIE STREET CHICAGO
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EDITOR'S COMMENT

THF papers of I ockhart Mummers (p 26) and of Cuneo and Bloch (p 26) upon cancer of the rectum and of Abel (p 17) upon can cer of the exophagus emphasize again the con stantly improved results that are being obtained in the surgical treatment of carcinoma of the gastro intestinal tract. As has been so often em phasized cancer of the gastro intestinal tract lends itself to surgical treatment because of its gradual development and its tendency to remain localized during the early stages of the disease Abel has pointed out again the vital importance of making an early diagnosis. Unfortunately in these situations in which early recognition is easiest-the upper and lower ends of the alimen tary canal-the technical difficulties of operative removal are greatest. That Lockhart Mummers has been able to operate upon 100 cases of rectal cancer with a mortality of only 3 per cent indicates the surgical possibilities of a well conceived and carefully executed plan of operative treatment

Cole's discussion of the role of the sulcus angularis with its excess of murova in the etiology of gastine ulcer (p=21) emphasizes the fact that the influences which have been considered by various pathologists as causature factors in the production of ulcer are concentrated upon this area and that the development of an ulcer may be due to the summation of these influences upon this dentition of the summation of the stomach. Higgins and Adams papers on duodenal ileus (p=23) in dicate the increasing attention and recognition that is being devoted to this less common cause of

gastro-intestinal pathology
The con tantly increasing interest that is being

manifested by American surgeons in the subject of bone tumors is undoubtedly due in part to the efficient investigation of bone sarcoma initiated a few years ago by Codman and his associates In this month's issue reviews of two papers on bone tumors by Bloodgood (p. 47) and Meyer ding (D 49) emphasize certain aspects of the important subject. Bloodgood stresses the importance of avoiding the diagnosis of malignancy in cases of benign cyst of benign giant cell tumor and of chondroma and of exploring central sar comata only if at all with the cautery Meyer ding emphasizes again the value of the roent genogram in the diagnosis and the helpful effect of radiation in the palliative treatment of endo thehoma Detailed methods of treating different types of benign tumors are discussed in both Dapers

A number of other important papers on subjects of varied interest which are abstracted in this month s issue can be only mentioned. The reports of Bancroft and Rogers and of Beck and Powers (p 50) on the results of the tannic acid treatment of burns confirm the successful clinical results that have already been reported by Davidson and others Henderson's description of an opera tion for correcting habitual dislocation of the shoulder (p 53) will be noted with interest by those who have attempted to correct this trouble some condition Esser's method of swinging large pedicled flaps with slender pedicles containing an attery nerves and lymphatics only (p. 60) a method which avoids the neces ity of dividing the pedicle should prove of great value to the plastic surgeon in selected cases

INTERNATIONAL ABSTRACT OF SURGERY

JANUARY, 1927

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Selfert The Route of Infection in Postoperative Purulent Parotitis (Infektionsweg bei postopera tiver eitriger Parotitis) 50 Tag d deutsch Ges f Chir Berlin, 1926

As there is still doubt as to the route of infection in postoperative parotitis, the author studied sixty five patients with the condition. All of them as long as they were severely ill, showed a preponder ance of staphylococci in the mouth The condition of the tetch also seemed to be of importance but other factors must be of influence. The investigations have not yet been completed. It is possible that a study of the mucin will solve the problem. At any rate, the findings to date indicate that the parotid gland becomes infected from the mouth and this fact suggests the prophylaxis STETINER (Z)

Stoccada F The Pathogenesis of Acute Postop erative Parotitis (A proposito della patogenesi della parotite acuta postoperatoria) Arch ital di chir 1926 XV 537

The prognosis of acute parotitis occurring as a postoperative complication is very unfavorable as the mortality, according to statistics recently col lected is 30 per cent

In the author's opinion no time should be lost in medical treatment surgical incision should be made as soon as the suppuration becomes manifest

Stoccada reports a case of his own in which the acute parotitis began on the sixth day after an appendectomy He incised on the second day after the beginning of the suppuration and the patient made an uneventful recovery The pus showed a pure culture of staphylococcus aureus

In connection with this case Stoccada discusses the pathogenesis of the condition According to one theory, the infection reaches the parotid gland from the mouth, while according to another it is carried to the gland by the blood stream The author calls attention to the fact that there are a number of lymph glands in the bed of the parotid and main tains that in his case at least, the infection was carried by the lymph circulation to these glands The patient had dental caries and chronic pharyn gitis due to the excessive use of tobacco Stoccada believes that instead of being called acute post operative parotitis the condition should be termed postoperative phlegmon of the bed of the parotid' because the lymph glands in the bed of the gland are affected first and the infection extends to the parotid by contiguity Audres G Morgan M D

Moure P Pre Operative Treatment with Arsenic Considered with Regard to the End Result in Two Cases of Cancer of the Lip (Le traitement arsenical pre operators a propos du résultat éloigné de deux cancers labiaux) Bull et mêm Soc noi de chir 1026 lu 160

The author reports two cases of quite advanced cancer of the lower lip in which radical operation was followed by a cure lasting two and three years **respectively**

He states that since the adoption of the practice of giving three injections of I to 15 gr of neo salvarsan during the week preceding the operation. complications due to infection have become rare and the risk of operation has been greatly decreased This preliminary treatment has now been extended to almost all operations on the digestive tract Itb beneficial influence is ascribed to the action of the neosalvarsan on the group of spirilla

In the discussion of this report, Brechor and LENORMANT stated that neosalvarsan was found greatly to favor the healing of war wounds

ALBERT F DE GROAT M D

EYE

Peck C H Pulsating Exophthalmos Ligation of Common Carotid Ann Surg 1026, lxxxiv, 1 5

The author reports a case of pulsating exophthal mos following an injury There was no change in

the fundus no loss of vision and no diminution in the visual held. A year after the injury partial occlusion followed by complete heation of the carot id artery was done to decrease the danger of cerebral accident. The subjective brust ceased after the partial occlusion but a low pitched murmur still persisted after the complete ligation. The exophthal mos has now disappeared and the nationt is in very good condition VIRGIL WISCOTT M D

Robinson (A Radium Therapy In Diseases of the Lye and Adnexa 1rch Ophth 1926 lv 328

The author has used radium with remarkable suc cess in the treatment of angiomata papillomata epidermoid carcinomata lymphomata perithelio mata intra-ocular tumors (glioma and melanoma) orbital tumors (sarcom4 and angio arcoma) and vernal conjunctivitis He has seen two cases of cataract following the use of large doses of radium In one that of a diabetic patient a secondary glau roma developed and enucleation of the eve became necessary He draws the following conclusions

- z Radium irradiation is the treatment of choice for angiomata vernal conjunctivitis epidermoid carcinoma of the excluds and early carcinoma of the
- It is indicated as a postoperative measure in ca es of primary intra-ocular tumors and should be first choice for primary orbital tumors
- To determine the status of radium in the treat ment of diseases of the eye and its adneya careful methods of irradiation and closer eo operation be tween the radiologist and onhthalmologist are neces sarv TIRCIL WESCOTT M D

West J Vi The Intranasal Lachry mal See Opera tion Its Advantages and Its Results 1rch Ophth 1026 ly 351

The treatment of dacry ostenosis has made little progress. The sac is irrigated the duet is probed and eventually the sac and in some chines the lachrymal gland are removed externally. Under the present regime fistula and phlegmon have a very poor prognosis even when the treatment is long continued Attempts have been made to establish a permanent connection between the communitival sac and the nose through an external incision unita nasally from the mauliary antrum and through the mouth The high incidence of failure of Tots s opera tion of dacryocystothinostomy must be due to the external incision which disturbs the relations of the canaliculi and internal ligament. An intranasal operation is applicable to all types of cases and is curative in 90 per cent

The author has done the intranasal operation r 600 times Local anasthesia is used. The misal mucous membrane is incised and a large flap turned a ide over the inferior turbinate to expose the bony wall from the pyriform apparatus to the posterior boundary of the lachrymal fo sa The sac is then exposed by removing this wall with chisel nasal end of the sac may be incised or the sac re

moved entirely The mucous membrane is then re placed and the mese packed. The artificial opening rarely closes as it becomes lined by epithelium from the emalicult After this procedure pathogenic bac tena leave the conjunctival sac within one or two days whereas after external removal of the sar pheumococci may remain for several years

The advantages of the intranasal operation are summarized as follows

1 The internal operation is more reliable as a cure for suppuration of the lachrymal sac than the external procedure

- 2 It re establishes the physiological function of the lackrymal apparatus so that not only a dacryo cistitis a lachrimal fistula or a phleemon is cured but subsequently the tears drain off into the nose and the troublesome epiphora is avoided establishment of drainage removes simple epiphora of nasal duct origin
- 3 The re e tablishment of drainage from the eye into the nose causes the disappearance of the patho geme bacters i from the conjunctiva which is very important when future intrabulbar operations are indicated
- 4 A prolonged and usually painful and unsuccess ful treatment with probes is avoided
- 5 Kemoval of the lachry mal glands is rendered
- o in external ancision or curettage necessitating an external bandage and other disadvantages is avoided
- 7 In cases of fistula and phlegmon the patient is spired the troublesome and painful changing of dressings which is necessary after the external in cision
- 3 The entire treatment a usually completed in about a neek
- 9 The operation is not trying upon the patient and is performed under local anasthesia in the cases of children as well as those of adults. Usually the dry following the operation there is scarcely any swelling of the face and bandaging of the eye is unnecessary SAMULA DIER VID

Duke Etder W S The Pathotogical Action of Light upon the Eye ti The Action upon the Lens Theory of the Genesis of Cataract Lincet 1916 CCT 1188

Regardle s of great speculation as to the cause of cataract it is only in recent years that the funda mental aspects of this problem have been ap proached It now seems that with certain exceptions the essential cause may be traced to the incidence of radiant energy directly on the lens itself All radiations transfer energy to the substances which absorb them the longer waves by increasing molec ular movement with primarily thermal effects and the short waves inducing photochemical and photo electrical effects. Hence in the last analysis the effect on the lens is dependent upon the absorption of radiant energy This energy must first traverse the corner and aqueous, and as the former is the

more absorbent, the nature of the radiations to which the lens is exposed is determined by it. The lens is reached by incident radiation of wave lengths of the order of 1010 Angstrom units, those in the region of 20,000 to 3,000 visibles, long ultraviolet rays, and those of the order of an Angstrom unit (X rays, gamma ravs)

Having reached the lens the energy represented by them may be absorbed by the lens, causing, changes therein, or transmitted according to the laws of refraction without affecting the lens or dis persed by the particulate structures in the lens. its path being thereby changed Aguin it may induce fluorescence, or a small fraction may be reflected

from the surfaces

Being interested only in the absorbed portion, we are concerned especially with the rays between 20,000 and 3 000 since the spectra of all ordinary sources he between these hmits Rays between 14,000 and 11,000 and between 4 000 and 3 200 will produce potentially a pathological thermal effect, while those between 3,000 and 3 000 have an abiotic and mild thermal effect From the point of view of pathology, the concentration of incident radiant energy in its passage through the lens is of primary importance. In this there are two opposing factors the concentrating effect due to refraction by the optical system and the dissipating effect. The latter is due to specific absorption by the media loss by reflection, dispersion, and spherical and chromatic aberration The total dentity of energy in the lens depends further upon the size of the pupillary aper ture and the size of the illuminating source From small sources of light there is no serious concentra tion in the lens but from large sources such as snow fields, the desert, or molten glass or metal, the con centration is enormous. On the capsule, thermal and abiotic effects are manifested by swelling and proliferation of the cells, eosinophilia, or basophilia in the cells, or nuclear pyknosis

Opacity of the lens substance is essentially a coagulation of the four proteins (1) albuminoid in the nucleus and two water soluble proteins in the Cortex, (*) alpha crystalline in the outer cortex (3) beta crystalline in the inner cortex and (4) albumin

Though the len is a sluggish tissue it must possess a respiratory mechanism in order to live and maintain its transparency This is an auto oxida tion system wherein glutathione acts as a bydrogen donator which reduces the hydrogen acceptors and the beta crystalline acts as a thermostable residue which reduces the glutathione after it has been oxi dized In the lens the glutathione content is large but is lowered after exposure to heat or ultraviolet rays, the metabolic efficiency of the lens also being then decreased

Lipoid substance may have some effect on the auto oxidative system by increasing the rate of oxi dation Protein may be changed from the colloidal to the particulate type by precipitation or coagula tion but as the former is a reversible process it is not important in the formation of cataract. The

latter, however, is highly important as it is non reversible and by means of it the protein is chemi cally altered. It consists of denaturation and agglutination and appears to be brought about by any form of radiant energy (heat) and by mechanical strain

In the incidence of coagulation hydrogen ions and salt concentration play a part. The reducing power of the lens is very sensitive to changes in reaction, disappearing if the medium is more than pH70 Salt concentration has a sensitizing effect on coagu lation by light, but salts are of importance chiefly in determining osmotic changes through the semi permeable membrane (lens capsule) separating the two greatly different media. When the normal mechanism is deranged, aqueous will enter if the difference between the osmotic pressures is increased (diabetes) if the internal tension of the lens is lowered (old age) or the intra-ocular pressure is in creased (absolute glaucoma), and if the vitality of the semipermeable membrane is lowered (debility, nutritional deficiency under the action of light), or its continuity is broken as in trauma

Experimentally cataract is produced by electrical oscillations, isolated infrared heat waves, visible light, ultraviolet rays, radium, intra ocular injections of hypotonic solutions of sensitizers (hæma toporphyrin) upon exposure to light Clinically, cataract may follow the passage of an electric cur rent through or near the eye, as in short circuits and lightning flashes, and in such cases is due largely to an electrochemical reaction and concussion Oc cupational cataract due largely to heat is seen in iron workers and occurs most often at the posterior pole where the radiant energy is most concentrated

Senile cataract from long ultraviolet rays is prob ably due to the action of the radiant energy on the oxidation sy tem of the lens and the stability of its colloid system Gamma rays rarely cause cataract, presumably because of the rarity of sufficient expo sure to them In diabetes two forms of cataract are seen, the common scale type and the rare type characteristic of that disease. The high incidence and early occurrence of senile cataract in diabetes is due to the fact that both sugar and acetone sensi tize proteins to the denaturing action of light and in addition, the diabetic state subjects the lens to an osmotic deforming force and abnormal fluid traf fic In cholera, the causes of cataract are probably

osmotic changes In the formation of complicated cataracts the determining factors are probably mal nutrition and the influence of toxins acting directly on the lens or acting indirectly by altering the permeability of the capsule

In conclusion the theory is advanced that the primary cause of cataract in general is probably the direct action of incident radiant energy on the lens which increases the lability of its colloidal system deranges the auto oxidation system upon which its metabolism depends and thereby renders its proteins more prone to coagulation by changes in the hydrogen ion concentration, osmotic changes due to

the action of radiant energy on the lens capsule general metabolic disturbances and continuous photosensitization George R McVuller M D

Duke Elder W S The Pathological Action of Light upon the Eye III Action upon the Retina Lancet 1920 ccm 16

Infra red light is practically all absorbed before it reaches the retina. Light of 7000 Anstorm unit wave length at the beginning of the visible red is absorbed very title 9 per cent of this incident energy reaching the ret na. From this point of the spectrum to 4 000 (ultravollet) all of the insudent energy is transmitted. The range is greater in child houd. The return is reached by waves between 4,000 and 7 000 and by some of those from 4 000 to 3 000 and 500 and 000 to 100 to 100 and 100 and 100 to 100 to 100 and 100 and 100 to 100 and 100 a

Pathological effects of light are due to over stimulation thermic action or absolic action. There is no evidence that they can be produced by over stimulation by visible light rais. Most of the en ergy incident on the retina is absorbed by the pig ment layers and degraded into heat. In the disk thermal lesions may produce thrombosis of the cen tral vessels. Ehewhere they produce sharply defined areas of thoroidal congestion. The effect is most murred in the pigment layers and less marked in the rods and cones and choriocapillaris. Other lav ers are affected only when the former are entirely disintegrated. The entire retina may be fixed by heat coagulation or entirely disorganized effects reported by amon observers occur as chro matolysis of the ganglion layer and loss of chromatin in the nuclear layers. As would be expected these changes occur more easily in aphabic eyes

Sun bindness is a purely thermal effect. It is associated with a reduction of visual acuit to 0/12 or 6 60 a diffu e cloud before the eye a demon strable scotoma and often metamorphopsis. The soctoma is central and sometimes absolute it usually contracts over a period of weeks. Ophthalmoscopic examination reveals a red spot at the macula and sometimes acutema and harmorrhages. Rare complications are obstruction of the central vessels herm orthager centuits retrobulbar mentits and optic morthager.

Any intense illumination may produce subjective symptoms but acute retinal damage is rare. Are highest have produced so atomata and contraction af the visual field as well as ordema pallor of the disk and macular changes. Flashes from short circuits and lightining flashes have had similar effects.

SAMUEL A DLES M D

Jameson P C The Surgical Treatment of Wounds of the Cornea with I rolapsed Iris Arch Ophth 1926 lv 465

Jameson describes two surgical procedures for the treatment of wounds of the cornea with prolapse of

the iris The first is the formation of a double triangular conjunctival flap which males even pres sure over the corneal wound and advacent cornea does not indent the wound margins does not slip does not sacrifice tissue and does not bring sutures in contact with the cornea A vertical incision is made through the communitive from the top of the vertical roeridian of the cornea to the forms Two other incisions are then made from its lower end in either direction along the limbus as far as necessary The two flaps are dissected line and the apex of one is fixed at the inferior extremits of its fellow by two or three sutures through the episcleral tisque aper of the other is then fixed on the opposite side in the same was to form a superficial supporting flap The superficial flap pulls out in about three days and the base flap a few days later both then returning to their original anatomical position

The second procedure described is the replace ment of the prolapsed urs. After sterliation of the riss with 3- to 1 per cent silver nitrate and irrigation a counter meision is made some distance from the site of corneal injury. A fine blust probe bent to a hook form is then introduced through this in cision and hooled around the prolapse and by traction from within and external pre-sure with a spatial the prolapse is replaced. The prolapse can often be replaced in this manner seen after an interval of from three to five dates.

SINIEL \ DLEE M D

Davenport R G The After Results of Corneo Scienal Trephining for Glaucoma Brit J Ophili 1926 7 4,8

Davenport reviews the records of 405 cases in which a treplane operation was performed in the period between 1919 and 19 3

Of 154 patients whose vision was 6/6 to 6/1 before the operation 124 had the same vision at the last record. In twenty, three vision was 6/18 to 6 60 and in seven less than 6/60

In rot cases in which vision was 6, 18 to 6/60 originally it was ultimately 6,6 to 6/12 in thirty one 6,18 to 6 60 in tilly seven and less than 6/00

in sixteen

In 147 in which vision was 6,60 before the operation it was ultimately 6 6 to 6/12 in twenty 6/18 to 6 60 in twenty six and less than 6/60 in 101

I treous was lost in seven cases in three of which enucleation was done. Loss of the disk in the eye was reported three times but occurred oftener it never produced any ill effects.

Eight patients over 60 vers of age had intra ocular hemorrhages with variable reduction of

Iris prolap e occurred in two cases in which no indectomy as done. In one of these a late infection developed. Choroidal detachment was noted

on ten cases but always subsided rapidly

Quiet intis seems to occur in practically all cases
especially if atropin is not used but usually it has

especially if atropin i not used but usually it has little or no effect on vi ion Acute infection followed the operation in two cases, and in one of these enucleation was done. There were fourteen cases of late infection occurring after from two months to seven years. Two eyes were eviscerated and six had vision of 6/12 to 6/18 when the infection subsided

In a few cases other operations were necessitated by increasing tension The results are less favorable

in old patients than in younger ones

Caturact is not caused by trephining. In four cases in which cataract extraction was done after trephining the visual results were poor SAMUEL A DURR, M.D.

Licskó A The Removal of Cataract with the Capsule Brit J Ophth 1926 x 485

In using a capsule forceps in the usual extra capsular extraction the author noted that sometimes the capsule was not torn but the lens was dislocated This was due to the use of a dull capsule forceps Accordingly, Licsko had a Shulek forceps made with blunt teeth. In his operation the usual preparation is given and the eye is fixed by a suture through the superior rectus. The incision is made longer than one third of the cornea, and a large conjunctival flap is formed and folded over the cornea. An in dectomy is then performed, the lens capsule is seized with the dull forceps, slightly above the equator, and lateral movements are made to rupture the zonule and draw the lens into the wound. At the same time sufficient pressure is exerted from below upward with a Shulek annular expressor to allow the operator to 'feel the elasticity of the vitreous" After the removal of the lens, the usual toilet of the eye is completed. Both eyes are kept bandaged for one day and the eye operated upon is bandaged for five days

Licsko has performed 204 operations of this type A successful result was obtained at first in 30 per cent and later in 50 per cent. In the others the ordinary capsulotomy operation was carried out be cause the loss of vitreous was feared after the new technique had been tried. Vitreous was lost in only one case and in this instance the loss occurred while the section was being made in a complicated cat fur ract. Two other patients squeezed vitreous out after the operation and one of these developed the only postoperative infection in the series.

In forty eight of sixty one cases ultimate vision was 5/5 to 5/70, in six, 5/15 to 5/30, and in three, 5/30 to 5/70. In two cases of high myopin and two of complicated cataract, vision was less than 5/70.

SAMUEL A DURR M D

TAD

Drury, D W Progressive Deafness The Causa tive Factors and Specific Diagnosis Laryngo \$cope 1926 xxxvi 545 Rowe A W Progressive Deafness The General

Diagnosis of Certain Causative Factors Larva

goscope 1926 xxxv1 551

Drury states that for a positive diagnosis of otosclerosis several independent examinations of the

patient should be made. He has noted the consist ency of the anatomical findings with the clinical variations of the condition. In a large percentage of cases of otoselerosis endocrine dysfunction is a causative factor. Attention is called to the importance of studying preselerotic cases in otoselerotic families.

Row, emphasizes the necessity for a correct diagnosis in the treatment of otosclerosis. The crusing the factors should be carefully considered. Of importance among these are the endocrine glands Interference with the function of the endocrine glands leads to constitutional disturbances which in turn interfere with the hearing apparatus, causing both functional and organic impairment.

JAMIS C BRASWELL M D

Maduro, R Three Cases of Septicamin of Otto Origin Cured by the Fransfusion of Blood (Trois cas de septicame d'origine otique guéris par transfusion de sang) Arch internat de larvingol, 1026 t.vii 1782

Of the author's three cases of scotica mia of otic origin which were cured by the transfusion of cit rated blood the first was the case of an infant of 4 years who developed otitis media after a tonsil Tollowing incision of the drum the tem perature became lower but several days later it rose again and its rise was accompanied by severe chills At a second operation a thrombosed sinus was opened and packed The blood culture made the next day was positive for streptococci As there was no improvement despite expectant treatment, a third operation was done. The sinus was then found full of pus As there was still no improvement after this operation, a transfusion of 130 ccm of citrated blood was given. The following day slight improvement was noted, the wound looked better and the child appeared brighter By the end of four days the temperature began to fall Ten days later the child was discharged from the hospital with a small retro auricular fistula

The two other cases were essentially the same In the second case an otitis media did not respond to puncture and an exploratory mastoid operation showed slight involvement of the cells but no signs of sinus trouble Following this operation there was some improvement for a few days, but the symp toms then returned with marked signs of meningeal involvement and two blood cultures were positive for streptococci Another operation, performed to explore the cerebellar fossa, revealed a small area of osteomy elitis in the mastoid cells (streptococcus) and some hyperæmia of the membranes. As there was still no change in the symptoms six days after the second operation, a transfusion of 100 c cm of blood was given At this time the red cell count was found to be 2,380,000 On the following day the temperature was lower and the red cell count had risen to 3 900,000 The patient's condition steadily improved A blood culture made six days after the transfusion was negative, and except for

a high fever at the time of the production of a fiva tion abscess, the improvement was steady The patient was discharged six weeks after the trins

Case 3 was a case of mastorditis with a positive blood culture several days after operation At a second operation pus was found in the sinus After the second operation there was still no improvement and a blood count should 3,510 000 erathrocytes and 18,820 leucocytes A transfusion of 50 c cm of citrated blood was then given. This caused slight improvement in the blood picture a blood culture taken four days after transfusion was positive but another taken five days later was negative. After slow but steady improvement the patient was al lowed to go home Three days later he returned to the hospital because of a chill and was found to have a bronchonneumonia with a severe anximia the red cell count being 2 640 000 and the white eell count between 30 000 and 40 000 Thelve days after his second admission to the hospital he had an other chill A transfusion of 85 e em of blood was then given This was followed by slonimprovement and the patient was sent home eighteen days later

The author concludes that the transfused blood not only furnishes antibodies of value in combating the infection but stimulates the tissues to more rapid recovery and the production of antibodies

MICHAEL L MASON MD

NOSE AND SINUSES

Proetz A W Displacement Irrigation of the Nasal Sinuses A New Procedure in Diagnosis and Conservative Treatment Arch Otologyngol

The author describes a method of introducing fluids into the posterior series of accessory nasal sinuses without trauma which may be used for

treatment or diagnosis

The patient is placed in the supine position with his head projecting beyond the top of the chair and with the occipito atlaid joint extended until the tip of the chin and the external auditory meats are in the same vertical plane A V shaped pocket is thus formed at the juncture of the face of the sphenoid with the enbritorm plate of the ethmord

Fluid which is then allowed to flow into the nos trils from a syringe comes to rest in this pocket submerging the ostia of the posterior sinuses Gentle suction (not over 3 lbs) is applied intermittently to one nostril the other being closed and the palate and tongue being held in the L position The suction is repeated until the sinus is full (about a dozen times) when the patient is returned to the erect position and the fluid left in the sinus for an indefinite period ranging from eight hours to several

In some cases it may be necessary to shrink the membrane with a mild astringent fluid before insti tuting the treatment. There is no danger that the

fluid will enter the eustachian tubes

In all eases treated by the author physiological sodium chloride solution was used, the object being merely to dilute the retained secretion and clear the ostia In every instance improvement resulted The treatment was repeated at intervals ranging from three to eight days

In the use of the de cribed procedure for diagnosis the sinuses are filled with iodized oil and stereoscopic roentgenograms then made. Thickened or polypoid membrane may be recognized from the filling defect

MANFORD R WALTE M D

MOUTH

The Carabation of Lymph in the Dentinal Tubules with Some Observations on the Metabolism of the Dentine 1 roc Roy Soc Wed Lond 1926 xix Sect Odontol 59

In experiments on living teeth the author exposed the pulp and injected India ink and ferrous ammo nsum estrate into the pulp chamber and then exam sned the teeth from one to twenty four hours later to determine how far the ink granules or estrate

solution had penetrated The findings indicated that the tubules may be regarded as tymph channels in which by the circu lation of the lymph nutrient materials oxygen and

immune bodies are transported to the living dentine and the products of its catabolism are earried away It appears that the fibrils of the ondontoblasts which he in these channels exert a controlling influence upon the metabolic processes in the dentine

It was demonstrated also that the lymph pene trates all of the tubules of the dentine up to the eement margin and that in a zone at the periphery of the dentine corresponding to the area in which the terminal branches of the tubules occur there is

a marked accumulation of lymph

The movement of the tubules is evidently main tained by the contrartile Rouget cells located on the eapillary walls described by Wellings which by alternate outtraction and expansion cause a pump ing motion in the tessels thus producing an ebb and flow The lymph e capes through lymph charnels through the dentine at its apical po tion

In chemical examinations of various teeth the author found that in newly erunted teeth the den time is not fully calcified and that for a few years after the complete formation of the teeth calcium is constantly being carried to the dentine Sym metneal teeth have an almost identical calcium con tent. In earnous teeth, the calcium content does not seem to be low and in the later months of pregnancy the calcum content does not deviate from the normal In different teeth there may be a variation of 20 per cent in the normal calcium salts

In cats partial parathyroidectomy appears to cause a nithdrawal of calcium salts from the den tine In the cases of dogs a calcium deficient diet seemed partially to arrest the normal increase in the ealcum content of the d ntine In the case of one young pregnant bitch a calcium deficient diet appeared partially to arrest the normal increase in the calcium content and in another to cause the withdrawal of calcium salts from the dentine

MANFORD R WALTZ, M D

NECK

Eckstein The Respiratory and Iodine Metabolism in the Golter of Puberty (Ucher den Gas und Jodstofinechsel der Pubertaetsstruma) Monatsschr f Anderheilk, 1026 xxx, 242

The author studied the respiratory metabolism in children with the gotter of puberty by experiments of short duration performed according to the Knipping Benedict method. He concludes that the gotter of puberty is not due to a dysfunction. This conclusion has been substantiated by the investigations.

of Sudek and Kestner

The administration of iodine in the form of dipodil caused no demonstrable influence on the respiratory metabolism. From the prophylactic administration of iodine in the goiter of puberty, the author has become convinced, as he reported claewhere with Feldmann, that iodine has a catalytic action and is effective in very small amounts. He states, however, that only time will tell whether the development of goiter in later life can be prevented by this treat ment.

Clute, H. M., and Mason R. L. Medical Manage ment of Patients Before Operation for Hyper thyroidism. Surg. Clin. N. 1m. 19, 6 v. 1583. Cattell, R. B. The Effect of Iodine on the Fathol ogy of Exophthalmic Goiter Surg. Clin. N. 4m.

19 6 vi 597 Lahey, F H The Management of Toxic Goiter Surg Clin N Am 1920 vi 005

Cture and Mason stress the importance of rest a high calone duet, the relief of dehydration, dign talization in cases with auricular fibrillation, and the use of iodine in the medical management of exoph talmic goinet before operation. While diabetes is not a common complication of hyperthyroidism the rather frequent occurrence of glycosura renders in accurate decision as to its presence or absence of extreme importance.

Of 700 patients operated upon for thyroid disease in the Lahey Clinic in 1925 seventeen bad glyco suna of sufficient degree to be classified. Of these, thirteen had true diabetes, three were potentially diabetic, and one bad renal glycosuma. Since the operation, three have discontinued taking insulin and two have been able to reduce the dose. In none has there been a progressively downward tendency since the operation the majority have shown a greater increase in tolerance than the average diabetic.

The authors quote Joshn as stating that the prognosis of thy road disease complicated by diabetes must be guarded Every patient with thyroid disease and gly cosuria should be considered a potential diabetic for life, even though the symptoms are

allevated by partial removal of the gland. In the cases of diabetics who have been prepared with insulin and a proper diet, the risk of operation is not markedly increased unless the patient has recently been in coma. When come has occurred shortly before the operation, the patient's ability to withstingd surgery has been materially decreased.

CATTELL says that before the use of jodine in toxic goiter the condition was associated with a fairly constant pathological picture. The gland was vas cular and reddish brown and had a meat like surface with fine lobulations and a very granular appear ance The epithelium was of the columnar type and piled up in papillary projections The colloid was greatly diminished or absent, and when present was unevenly distributed The jodine content was low In from 90 to 95 per cent of the patients who are given todine this picture is changed in the direction of involution The degree of involution depends upon the amount of todine given and the length of time it is given as well as upon certain individual variations The amount of iodine steadily increases up to saturation Iodine enables the gland to ap proach a more normal appearance and function but the manner in which it brings this about is not known That the jodine is responsible for the histo logical changes seems certain since the natural clim cal remissions are too rare to account for them and rest and recreation have little effect on the patho logical picture

The changes in the gland explain the clinical im provement noted in approximately go per cent of the cases treated It has been generally observed that the maximum clinical effect occurs after from eight to fourteen days, while the maximum effect in the gland occurs much later In cases in which the gland shows involution and a high iodine content and the clinical condition remains unfavorable, some extra thy rold phase of the disease is suggested. In certain other cases early improvement occurs under continued iodine therapy but later the high basal metabolic rate and severe symptoms return Cattell has seen an involuted gland return to a hyperplastic state noder favorable circumstances This indicates that rodine treatment does not cure exophthalmic goiter, its effect being incomplete or temporary, but it is of unquestionable value as a pre operative measure

Laher states that so much has been written and said regarding the climination of multiple stage op erative procedures by the use of indine in hyper thyroidism that the value of the divided operation tends to be under estimated. One or two added steps leave the surgeon only with the possible regret of over cautoussness, and this is not to be compared with the regret attending the lack of cautiousness in operations upon patients with an intensely toruc thyroid condition. In Lahey's Clinic the mortality of the conservative plan of treatment has been found low as compared with that of the more daring plan

The patient should be seen by the surgeon before todine treatment is begun in order that he may be

able to determine the degree of toxicity and the benefit to be derived from indice This is extremely important. Lahey has seen many patients with severe hyperthyroidism who under todine treatment and rest, were rendered apparently good operative rists but had a serious postoperative reaction. He therefore uiges that complete operations be under taken upon patients with toxic potter only after y consideration of their state previous to the administration of joidine and that the operation be limited if there is the slighter doubt as to their ability to withstand a more radical procedure.

STANEN I SHAFE MD

Wellanby E. McNee J. W. Monod G. Fraser F. R. and Ryle J. A. Discussion on the Treat ment of Exaphthalmic Golter Pro. Roy. Sor. 11 d. Lond. 29 b. xx. Set. Surg. Mel. Flexing.

therap and Therap to:
Fraser F R Dunbill T P Salmond R B A
Cheatle Sir L and Others Discussion on the
Treatment of Exophthalania Coiter 1 to Revoc Ved Lond to 6 to test Surg Med
Electrotherap and Therap to?

Hoskin J Norbury L Brown W L McNee J W and Others Discussion on the Treatment of Exophthalmic Golter Jew her See Med Lond 1026 My Seets Surg Mid Hectrothersp

and Therap 1

MILLAND poke of the recent introduction of iodine in the treatment of exophitalising goiter. He emphasized that iodine may produce an exacetation in cases with a large hard gland and when it is stopped during the early month. He has treated eases medically with success.

McNEE discussed the use of iodine with special reference to its value in evere thyrotoxic crises

FRAFF called attention to the necessity for variation in the dosage of iodine. In cases in which the gland is hard knobby or fibrotic and those of secondary Craves disease smaller doses of the inclure down to 2 minima a day should be given

RYIE discussed methed treatment without odine FRASA Relassified allieases into primary and second any Grawa. Sucassa and described the natural course of the condition. The treatment should can sit in rest the elimination of sepsis the administration of looking, and a liberal diet. Fraser believes that many cases can be cured without operation but that if satisfactory improvement does not occur in six months operation should be considered. He emphasized the importance of operation in secondary (rayes disease and the necessity for and beneficial effect of operation in cases with cardiac involvement

DUNISEE divided cases for operation into five classes as follows

- s Those in the first six months of the disease Operation is not required
- 2 Those past the first six months. Operation is indicated. Dunhill disagrees with Barker's state ment that all patients get well in two or three years whatever the treatment.

3 Cases with cardiac failure and nuricular fibril

4 Atypical cases Operation is not advisable
5 Cases of toxic adenoma Operation is indicated Dunhill recommends a two stage operation
SALMOVD stated that in a majority of mild scute
cases of exophthalmic pointer. Y ray treatment cau es

marked improvement

Hoskin described the electrocardiogram of the
thyroid heart

Paul Stark M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL
NERVES

Dandy W E Pneumocephalus (Intracranial Pneumatocele or Aerocele) Arch Surg 1926

Intracranial perogenous tumors have been diag nosed during life only by means of the X-ray. The author has collected twenty eight cases of intracranial pneumatoceles including three of his own

The opening into the cramal chamber may be due to a fracture an operation the erosion of a chromic infection or destruction of the floor of the skull by a tumor or dilated third ventracle in hydrocephalus Intracranial pneumatocole may result also from in fections caused by gas producing organisms. Snezz ing coughing straining or swallowing is necessary to force the air through a bony and dural defect into the cranial chamber. According to their location, four varieties of pneumatocele may be recognized, the subarachnoid the subdural the intra cerebral, and the intraventricular.

The intracerebral variety appears to be the most common According to the usual sequence of events the dura is torn and the frontal cortex injured by a fracture of the frontal sinus. Adhesions are then formed between the dura and the brain and later when the patient sneezes or coughs, air is forced through a find canal in the cortex and expands in the softer white matter. It is not necessary to suppose that the opening is closed by a valve action a canal may permit the passage of aqueous fluids while not permitting the passage of air. The brain tissue is damaged by the traumir and by the air.

The symptoms are mainly those of increased intracranial pressure Frequently they develop weeks or even months after a trivial injury of the head. In the differential diagnosis, subdural harmatoma brain abscess, and meningitis must be considered. In pneumatocele there is usually a discharge of cerebro spinal fluid. Snezing is a frequent sign and when followed by rhinorrhea the diagnosis is almost certain.

When the discovery of the condition is left to chance, the mortality is about 40 per cent death resulting from infection on pressure. The ruthor suggests covering the duril tear with fascia lata sutured in place.

TRACY I PURNAM MD

Ninger F Late Results of the Surgical Treatment of Cerebral Abscesses and Otogenic Meningitis (Resultats éloignes du traitment chirurgical des abces cerebrauv et de meningites otogenes) Arch internal de laryingle 19 6 vyvii 668

Attention is called to the necessity of waiting a sufficiently long time before pronouncing cases of cerebral abscess and meningitis completely cured Mental changes are particularly likely to be over looked. The author reports six cases

The first was that of a 13 year old boy who de veloped 1 large obscess of the right temporal lobe during the course of 1 chronic bilateral otitis media. When he was first seen the patient was unconscious, his pulse was 60 ind his temperature 38 6 degrees C. The neck was rigid and there was a left spastic hemiolegia with a right outer neutral.

Upon incision of the dura over the temporal lobe, about 35 c cm of thick feetil pus escaped. The temporature became normal on the third day after the operation and movements of the extremities gradually returned. The patient was discharged apparently well after two months.

The findings of a neurological examination eight months after the operation were essentially negative except for a right optic atrophy with almost com

plete loss of vision in the right eye

In the second case reported hemplega on the left alde suddenly developed two weeks after the onset of acute of the media on the right side. No alteration of the dura was found at operation, and during the succeeding months the hemplega showed only slight improvement. There were no vascular findings to account for the hemplega.

In the third case, chronic otilis media on the right side was followed by a temporal abscess on that side and a purulent meningitis with pus cells and dip lococci in the spinal fluid Execuation and drainage of the abscess was followed by prompt improvement, and the patient was discharged three months later. Some mental sluggishness has persisted during the seven months since the operation but is gradually clearing up.

Three cases of early meningeal involvement secondary to otitis media with evidences of laby rinthine involvement are also reported. The treat ment consisted in evacuation of the primary focus, labyrinthectomy and lumbar punctures. Recovery resulted in all, but in one a mild manic type of mental disturbance was present three months after the operation. LAWRENCE, JACQUES M.D.

Hirsch O A Clinical Study of Tumors of the Hypophysis Based upon 100 Cases Operated upon by the Author by His Endonasal Method (Contribution 4 la clinique des tumeurs hypoph saures basée sur 100 cas optres par la uteur d'apres sa propre méthode endonasale) Presse med Par 1926 XUVI 578

Hirsch discusses particularly the ocular form of tumor of the hypophysis because not much atten tion has been paid to it in the description of the classical forms of hypophyseal tumors. The ocular form is associated with disturbances of vision and striking changes in the general condition including disturbances of genital function impotence or the menopause loss of beard and hair disturbance of sweat secretion somnolence indifference and a low temperature The hands feet and face are normal

and there is no obesity

The eye symptoms consist in loss of keepness of vision and retraction of the visual field. The latter often occurs in the form of bitemporal hemianopsia This is almost pathognomonic of tumor of the hypophysis but the author saw it once in a case of hydrocephalus. Hirsch has found bitemporal bem ianopsia in 84 per cent of his cases The rest presented either central scotoma homonymous hemianopsia nasal hemianopsia of one eye or un characteristic changes in the visual field. I rimary atrophy of the optic nerves is as characteristic of and as frequently associated with tumor of the hypophysis as temporal hemianopsia (89 per cent of the cases) Hirsch finds that congestion of the disk and optic neuritis are more apt to indicate the absence than the presence of a tumor of the ha pophysis

Tumors of the hypophysis cause primary atrophy of the optic nerve because they produce strangula tion of the nerve by the circle of Willis The chiasm is not situated directly in front of the pituitary fossa in the chiasmatic groove but is more than a centimeter above and back of the latter. If the tumor enlarges only toward the sphenoid sinus and not toward the base of the bram there are no dis turbances of vision but if it enlarges toward the base of the brain it will touch the optic chiasm and press it against the arterial circle above it and its progressive growth will be evidenced by progressive

disturbances of vision

There are two forms of acromegaly the benign or classical form and the malignant form. The benight form is never accompanied by visual disturb ances while the malignant form always produces such disturbances after a time. In benign acromegaly tissues derived from the ectoderm are par ticularly affected. There is often intense headache The tumors are benign adenomata made up chiefly of cosmophile cells Malignant tumors are not malignant histologically but are malignant clinically be cause they grow progressively and their symploms increase Their growth is expansive and only rarely infiltrating. This form unlike the benign form is characterized by visual disturbances and is frequently accompanied also by obesity

AUDREY G MORGEN II D

hrause F Noteworth; Observations in the Field of Brain and Spinat Cord Surgery (Bemerkens werte Beobachtungen aus dem Gebiete der Hirn und Rueckenmarkschirurgie) Beitr klin Chir 1026 CTXXVI 330

The author reports two cases of brain tumor which were operated upon with good results. In both the tumor was a fibrosprcoma the size of a small apple and situated in the upper portion of the left central convolution Because of adhesions to the longitudinal sinus resection and suture of the latter for a distance of 50 mm was necessary

One of the patients a 61 year-old man, had had for two and a half years a twitching of the right shoulder which occasionally extended to the right foot and the muscles of the right side of the abdomen I few weeks before the operation the right leg and arm had become weak and at the time of the na tient's admission to the hospital the leg was paretic although it could still be used in walking Brain pressure and papillodema were not demonstrable

After the extirpation of the tumor which was done under local anxisthesia there was paralysi of the right leg and arm with preservation of the reflexes Movements of the fingers began after one week and movements of the arm after seven neeks and then slowly improved. Although the operation was confined to the leg center active innervation in certain muscle groups of the leg became apparent only after four neeks. However they then im proved o rapidly that after five and a half neeks tests of standing and walking were possible. The naresis was spastic with marked increase in the

In the second case that of a 43 year-old patient a twitching of the right arm and leg and severe paroxismal attacks of beadache began five years previously Ultimately abducens paresis and papil

lordema developed

During an osteoplastic trephination under local anasthesia severe collapse occurred when an at tempt was made to expose the longitudinal sinus for the necessary resection. The operation was therefore not completed. The removal of the tumor with resection of the sinus was done five weeks later

Even after the first operation the right arm was completely paralyzed and the right leg was paretic although in this case also the operation was restricted to the leg center. After the second opera tion the naresis of the leg became more severe. Four necks later the leg was able to bear the body neight

but the arm remained completely paralyzed Arause discusses the value of myelography in the segment diagnosis. He is not convinced that the injection of todapin into the dural sac is entirely harmless. In one case he observed signs of severe arritation in the region of the lumbar and sacral roots after the injection of 3 c cm and at laminec tomy performed four weeks later because of a sus pected tumor intense reddening and marked injection of the vessels were found. Attention is called also to the fact that the iodipin clouds the cerebro sound fluid to such an extent that it obscures the operative field Meningeal irritation has been re ported following the injection of lipiodol but this preparation is less irritating. In many cases the procedure is superfluous

As the result of progress in neurology a very good method of determining the level of the disturbance of spinal cord conduction has been deused By lumbar injection followed by elevation of the pelvis according to the Trendelenburg method eight days after the atlanto occipital injection, Monix was able to demonstrate the lower border of the compression myelographically This is a decided advance in diagnosis

Myelography is of great importance when, because of varying symptoms in the region of the upper limits, neurological methods alone are not sufficient as in stasis of the cerebrospinal fluid above a constricting process in the spinal canal such as occurs in chronic meningitis serosa. It is of aid also in the region of the cauda equina since, because of the long intravertebral course of the roots, it may he very difficult to determine which vertebral arches should be removed.

Doghottl, A. M. Phenomena Observed in the Brain After Homotransplantation of Fixed Brain Substance (Sur fatti che si osservano nel cervello in seguito all'omo innesto di cervello fissato) Arch tal di chur 10 o 70 173

Deplott implanted into the brains of dogs and guinea pigs cubes of homoplastic brain substance hardened in alcobol and left in sterile physiological salt solution for an hour before the implantation. He opened the skull and dura mater and excised a piece of brain tissue corresponding in size to the cube to be implanted. In some cases he replaced the flap of dura mater over the implanted tissue and closed the external wound, but in others he removed the flap of dura mater entirely and substituted for it a piece of hardened fascia lata or dura mater.

Examinations of the transplants and the tissue covering them were made up to as long as six months after the operations. The implant caused a slow defense reaction and was slowly destroyed by peripheral corrosion A capsule of collagenous tissue formed around the implant which was only very slowly destroyed by phagocytosis After four months the implants were reduced to about a third of their original volume, surrounded by the collage nous fibrous capsule of meningeal origin, and inti mately adherent to the dura Even after six months the central part remained unchanged. At the pe riphery of the implant there was an invasion of large cells which evidently acted as phagocytes. These were large granulo adipose cells resembling those found in reparative processes in injuries of the hrain The author believes they were of mesenchymal origin, derived from multiplication of histocytes (Marchand's adventitial cells)

In Doghotth's opinion, hardened fascia lata, or better still, hardened durn mater has advantages over fresh tissue since the former are easier to obtain and can always be kept ready, and their use is less apt to cause adhesions. In the experiments in which Doghotti used fascia lata or dura mater fixed in alcohol there were only slight adhesions where this foreign tissue joined the dura mater.

When the implant is completely buried in brain tissue the meninges no longer take part in its de struction, the reactive cells are produced by the neurogha. The large cortical cells do not take part in the process of repair, and there is degeneration of the nerve cells immediately around the graft. The nerve fibers may come up to the reactive focus but do not penetrate it. They never come up to the implant itself, but remain separated from it by the neurogha cells, the connective tissue, and the mass of granulo adipose cells which surround the implant. The destruction of the graft is brought about en tirely from the periphery, the graft is never pene trated by the phagocy tic cells.

AUDRES C MORGAN M D

SPINAL CORD AND ITS COVERINGS

Peet M. M. The Control of Intractable Pain in the Lumbar Region Pelvis and Lower Extremitles by Section of the Antero Lateral Columns of the Spinal Cord (Chordotomy) Arch Surg. 19.6 vii. 153

The author gives a biref historical sketch of chordotomy and discusses intractable pain in the lower part of the body and the legs. He abstracts inneteen cases from the literature and reports in some detail nincteen cases of his own with the find lings of the neurological examinations and sensory charts.

Menton is made of the fact that an arbitrary depth of section may not prove satisfactory in all cases as all cords are not of exactly the same size and a difference of o 5 mm in the depth of the section may leave intact some of the fibers which should be severed. In some cases the loss of the pain and temperature sensations may not correspond to the level of the segment incised but may bear a closer relation to the depth of the incision, that is, the level will more nearly approach the distribution of the incread segment as the section is carried deeper. Thus is true especially as regards the anternor portion of the anteriolateral tract.

In one case a bilateral section was made at the eighth dorsal segment with loss of pain and tem perature sense below the eleventh dorsal segment on the left and only diminished pain on the right. This incision was 2 5 mm deep on the right and slightly less on the left. In another ca c two bilateral chordotomics performed to a depth of 3 mm at the sixtb and third dorsal segments resulted only in analgesia of the region of the sciatic distribution in the lower part of the legs A third chordotomy done at a lower level but o 5 mm deeper produced higher analgesia and thermanæsthesia. The highest levels were obtained when the incision extended directly forward through the anterior root. Some cases showed temporary motor weakness or retention of urine The cutaneous and deep reflexes were modi fied only occasionally and then perhaps as the re sult of trauma to the adjoining fiber tracts caused hy carrying the incision too wide or by manipulation. The sensations of touch motion and position. vibration and localization were nee erved

In the cases reported in the literature the primary conditions which eventually brought the nations to operation for the relief of pain were mali, nant dis ease of the spine in three gunshot mours of the spine in three tabes dorsalis in three michies in two, carcinoma of the rectum in two carcinoma of the cacum in one carcinoma of the uterus in one carcinoma of the breast in one sarcoma of the thigh in one shell nound of the scratic nerve in the privis in one and pain in the vagina and rectum of un known origin in one. The relief was satisfactors in fourteen and partial in his cases. Indeme from the records satisfactors relief is not always complete absence of pain but complete absence of pain was phtained in most of the ca es in which the result was recorded as satisfactors

In the author's series the primary conditions were carcinoma of the uterus or cervix in nine carcinoma of the breast in two sarcoma of the leg in two carcinoma of the prostate in one carcinoma of the lung in one retroperitoneal malignancy in one pain in the legs associated with spartic contractions in one rain in the legs of unknown origin in one and avulsion of the lumbosacral plexus in one. In five of the ca ex of malignancy there were metastases in the vertebra. The final re-ults were complete rehef from the pain in sixteen partial relief in two and complete but apparently temporary rebel in one

The technique of the operation is described. The chordotomy should extend to a death of a mm im mediately in front of the dentate twament and pass directly forward through the exit of fibers of an

anterior ruot

In the thirty eight cales reviewed the results were in the main satisfactory. The author believes that chordotomy with section of the anterolateral col umns is the best means at our disposal to relieve intractable pains in the lower half of the body

(C INDERSON M D

SYMPATHETIC NERVES

Adrian E D Smith G F Brannell E Banksrt A S B and Others The Sympathetic Inner vation of Strinted Muscle Free Roy Soc Wed Lond 10 0 tix Sect Neurol 1

This is a sympo ium on the anatomical and physiological basis of Hunter's theory and the results of Royle's sympathectomy for spassic paralysis The discussion of the finer points of the anatory and physiology of the sympathetic nerve supply of striated muscle is too technical and de tailed to be summanzed in abstract form Sympa thetic endings in muscle can be demonstrated histo logically but the results of sympathectoms differ in different animals

Fourteen cases in which Royle's operation was performed were reported by Bunkart Jefferson and Beattie In Beattie's case that of a 7 year-old child with spa tic paraplegia who had never walked, the troublesome closus was relieved and walking became possible In all of the other cases reported there was no definite improvement, although some supple ness to passive movement was usually noted and there was vasodilatation with increased warmthin the affected limb TRICY ! PUTLIE MID

Bart L and Latair G Causaigia Originating in an Amputation Stump of the Right Thich Section of the I umbar Rami Communicantes of the Right Sympathetic Trunk (Causa'me prenant origine su niveau d'un moignon d'amputa tion de la cuisse droite ection des rameurs com municants lombaires du tronc sympathique droit) Bull et mem & s not de chie 10 6 lu 152

This article is a very detailed report of a case of causalgia treated by ramisectoms performed ac cording to the method advocated b. Royle and Hunter

The patient was an acrobat who had a shull frac ture and an open fracture of the right knee which necessitated amputation through the middle third of the thigh A year later three days after a fall on the side of the stump which appeared of no im portance at the time he began to suffer from general malaise and a sticking pain which radiated into Scarpa's triangle and the gluteal region and was accompanied by trembling of the stump. There u is also a moderate elevation in the temperature

These attacks recurred regularly on an average of five times daily and assumed a character described

as follows

c Stabbing pain on the posterior surface of the end of the tump reaching its maximum intensity in about three minutes and subsiding after a total duration of five minutes

general depression rendering connected ton versation imposable and associated with formication in the right half of the head which occasionally spread to the arms but ceased the moment the stume began to tremble. The duration of this phase nos five minutes

During the attacks the stump became evanotic In the physical examination only mydrasis of the right pupil was noted. Palpation of the stump pro

soled trembling but no pain

As these attacks rendered the patient s life intol erable operation was undertaken. The lumbar rami communicantes were resented on the right side the route of approach of Royle and Hunter being used The nationt made a practically uneventful recovery, and up to five weeks later there had been no return of the causalma. The pupils became equal a few days after the operation

ALBERT I DE CROST MD

Davis L and Kanavel A B The Effect of Sym pathectom) on Spistic Paralysis of the Extrem

This article is a summary of the authors experi ence with Royle > operation of sympathectomy for spasticity and a review of the anatomical and experimental work on which Hunter's theory was based. From clinical and experimental study the following conclusions are reached

r Histological evidence points to the dual in nervation of skeletal muscle from the cerebrospinal and sympathetic nervous systems

2 Experimental removal of the sympathetic trunks in cats produces no effect on normal tone that can be observed or recorded

3 The onset and maintenance of decerebrate rigidity in cats is unchanged after the removal of the sympathetic innervation to an extremity. With the exception of Royle's work on goats, the evidence in the literature is in agreement on this point.

4 The problem of muscle tone is extremely complicated. One or several mechanisms may be responsible for changes in muscle tone. At present there is no accurate clinical method for measuring. changes in muscle tone Lengthening and shorten ing reactions and "hung up' reflexes alone are insufficient indications for operation

5 K3 mographic tracings of tendon reflexes, far adic stimulation, active and pressive motions, and tremors before and after removal of the sympathetic nerve supply have shown no change in cases of paralysis agitans, postencephilitic Parkinson's disease, system degenerations of the spinal cord such as lateral sclerosis traumitic lesions of the spinal cord, cerebral hermolega, or Little's disease

6 The sympathetic nervous system may have some function dealing with the metabolism of muscle such that under certain conditions, the contractility of a muscle may be changed by the removal of sympathetic impulses Such a function would probably be chemical in nature

TRACL J TUTNAM M D

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Séneque and Lecene Two Cases of Cytosteatone crosis of the Subcutaneous Cellular Tissue Breast and Abdominal Wall (Deur cas de cyto stéatonécrose du tis u cellulaire sous cut inc. sein et paroi abdominale) Bull et mêm Soc nat de chie 2020 lu 607

The first case reported in this article was that of a woman 44 years old who sustained a blow on the left breast and three months later consulted Screque because of a firm freely movable and slightly ten der nodule which had persisted just heneath the skin at the site of the injury

At examination the overlying skin was found to

be slightly discolored

Cross section of the mass after its removal revealed many whitish and gravish points dissemt nated in the fatty ireolar tissue. On microscopic examination of frozen sections stained with Nile hine the fat cells were found to he laden with fatty acids and soans

In the second case a movable and slightly tender area of induration measuring about 2 by 4 cm de veloped spontaneously in the subcutaneous tissue of the left flank. In this ca e also saponification was found in the excised mass

I MERENCI JACQUIS MD

Lenormant C A Voluminous Sarcoma of the Breast Cure of Three Years Duration (Volu mineux sarcome du sein guérison apre trois ans) Bull et mêm Soc not de chir 1926 lu 166

A woman of 52 years had hid a small nodule in a breast for about twenty years The nodule sud denly began to grow tapidly and in six months attained the size of a man's head. The patient's general condition became poor, but there was no evidence of metastases nor was the tumor fixed to the chest wall

Simple excision into normal tissue regarded as a purely pullitative operation was followed by a cure

of three years duration

Microscopically the tumor was a spindle cell sarcoma

In the discussion of this case, Arron Montelair and Wiarr reported cases of similar tumors with apparent recovery for periods of from two to eighteen years LECENE cited the cases of two patients who re

mained well for ten years and then succumhed to metastases which were formed in the lungs (shown He stated that metastases appearing by autopsy) after many years without recurrence of the tumor at the original site are not rare ALBERT F DE GROAT M D

TRACHEA LUNGS AND PLEURA

Diagnostic I neumotherax Chn Med 1926 iv 907

Diagnostic pneumothorax has helped to clear up many obscure lung conditions which formerly were undiagnosed

By this method-the production of a hubble of air in the pleural cavity-it is po sible to show arregularities of the pleura, adhesions and abnor malities of the diaphragm and mediastinum by shifting the patient's position. A bronchiectatic atelectatic lobe hidden by the cardiac shadow may be visualized. The value of the procedure is further enhanced by the injection of lipiodol

The technique of pneumothorax con ists in in filtrating the skin with a local anasthetic incising the skin injecting more of the local anasthetic to the oleura taking a manometer reading, and then introducing the proper amount of air

Although the author has never seen a severe re action following this procedure he believes it should he reserved for cases in which the ordinary methods have failed to give the nect eary information

Singer reports four cases in which the method fully demonstrated his claims

DON L HUTCHENS MD

Forestier J The \ Ray Examination of Respira tory Culties with Iodized Oil (Liplodol) 4nn Clif Wed 1926 IV Sop

The opaque medium used by the author for \ ray examination of the bronchial tree is a 40 per cent vegetable iodized oil (lipiodol) which is both innocu

ous and antiseptic

The oil may be injected by the tran glottic the larvageat the bronchial or the cricothyroid route. In the use of the cruothyroid route, which is the easiest a direct injection is made through the midline of the neck between the cricoid and thyroid cartilares A successful injection requires the co-operation

of the patient suppre sion of the cough reflex (which is facilitated by the application of a local anasthetic to the phary ax and a hypodermic injection of mor phine), the immediate injection of the warm oil in appropriate quantities up to 60 ccm and the placing of the patient in such a position that the area to be explored will be as dependent as possible The roentgenogram should be taken immediately

and in different positions with the use of the Buck) Potter diaphragm Stereoscopic films should be made

No fatalities due to the procedure have been re ported Hamorrhage active tuberculosis and a poor general condition are contra indications

The author states that he has obtained excellent results with this method in the study of the anatomy and physiology of the bronchial system. It is a most definite aid in the determination of deviations of the trachea and bronchi, the localization of foreign bodies, areas of bronchiectasis tuberculous cavities lung abscesses, thoracic fistulæ, and chest tumors, the control of the collapse of the lung in therapeutic pneumothoray, and the examination of the collapsed lung

As a therapeutic measure, the injection of lipiodol has been of distinct value in cases of bronchiectatic cavities, and occasionally in those of tuberculous cavities It may prove beneficial also in the treat ment of conditions such as asthma and bronchitis

DNK HUTCHESS MD

Boehm, G On Roentgenograms of Infarcts of the Lung Bril J Radiol 1926 XXXI 199

Boehm reports a case of pulmonary infarction which is interesting because few cases have been studied roentgenologically and because it was under observation until complete recovery had oc curred

The patient was a woman 4r years of age who sixteen days after a myomectomy, bad a sudden attack of dyspno a and cyanosis and five days later developed fever A diagnosis of pneumonia was made The diagnosis of infarct was made twenty seven days after the onset of the condition and was based upon the roentgenological findings

The roentgenogram showed a rather dense shadow in the middle of the right lung fields which pre sented varied shapes depending upon the patient's position. In the postero anterior position, its shape was oval, whereas in the right oblique position it was that of a wedge In both positions the borders were definite and the outline was distinct There was some thickening of the interlobar pleura and the shadows cast by this thickened pleura made it possible to localize the lesion in the lower part of the upper lobe

With the patient's recovery the abnormal shadows disappeared from the roentgenogram

CHARLES II HEACOCK M D

Craham E A The Surgical Treatment of Pul monary Suppuration in Children J Am M 1ss 1926 lxxxvii 806

Of 218 patients with pulmonary suppuration who were treated by Singer and Grabam in the last five vears, forty were children under 12 years of age Of these forty, 82 per cent are now free from cough and other symptoms The mortality was 12 5 per

The treatment of acute pulmonary absce s must depend largely upon the site of the lesion The three most common types of cases to be differents ated are those with an absce s near the hilus those with an abscess in the periphery of the lung and those with multiple abscesses scattered throughout the lung fields On the whole it may be said that abscesses near the hilus are not amenable to surgical dramage while those at the periphery may frequently be so treated

The treatment should consist in eradication of the source of the infection the establishment or improve ment of drainage, the collapse of any cavities that may be present the removal of chronically diseased tissue, and general hygienic treatment, including treatment with light

The eradication of the cause of the infection in cludes the removal of any aspirated bodies from the bronchi Vaccines have proved of little value. In the cases in which the spirochæta is predominant, arsphenamine has been found beneficial

In a discussion of drainage, mention must be made first of natural drainage through the tracbea aided by posture Drainage is frequently improved by bronchoscome suction. In cases of peripheral abscess which has ruptured into the pleural cavity drainage of the resultant empyema frequently clears up the condition In cases with peripheral cavities surgical drainage may be resorted to The operation may be performed in several stages. The first stage should consist in the production of adhesions. In the absence of pleural adhesions an abscess cannot be drained and even exploratory puncture should not be done

Surgical drainage should not be undertaken in the

formative stage of an abscess

Collapse of a cavity is obtained preferably by artificial pneumothoray Other procedures for this purpose are avulsion of the phrenie nerve and thoracoplasty The latter are indicated particularly for abscess at the bilus

For the removal of the diseased tissue Grabam prefers the operation of cautery pneumectomy in which, after adhesions have been formed and the diseased lung has been laid bare, the tissue is re moved bit by bit with the actual cautery

The prognosis of acute pulmonary suppuration must be guarded as the mortality is apt to he high It must be borne in mind, however, that a spon taneous cure often occurs The chief complications of pulmonary suppuration

are cerebral embolism, brain abscess, hamorrhage and abscesses elsewhere in the body RALPH B BETT IA M D

Lichty J A, Wright, F R and Baumgartner E A Primary Cancer of the Lungs A Clinical Report of Seventeen Cases J 4m M Ass, 1026 1777711 14.1

It appears evident from all statistics that since 1918 there has been a definite increase in the incidence of carcinoma of the lungs Therefore in the diagnosis of chronic diseases of the chest the possibility of primary carcinoma of the lungs should be borne in mind

Cancers of the lungs are classified as nodular in filtrating and diffuse or miliary The most frequent type is the adenocarcinoma Lung cancers may arise from the bronchus lining or glands or from the alveolar lining Metastasis in the regional lymph

glands and liver are common

The usual symptoms are pain in chest, dispiners cough, general neakness, loss of weight cacheria fever and bloody expectoration. In the cases report of pain was the carliest and most pers stentsymptom and always occurred on the same side as the lesson. It was usually worse at might. The weakness was of a continuou and progressive type and was not alleviated by rest. Loss of weight was not an early sign. There was nothing characteristic and nearly sign and the early physical sign. Street outstanding agonal the stage in which most of the patients were seen was unwarring to the neutron resonance.

In the diagnosis of critinoma it is necessary to rule out the more common lesions of the lung. While the \text{\text{Ta}} is necture is not ab oblight, sharacteristic an irregular shadow should be looked upon with suspicion e pecally if carcinoma is known to be present in some other part of the both

The conditions from which carcinoma of the lung must be differentiated are gulmonary toberculosisunesolved pneumona fibroid pleuriss lung step his mycoses of the lungs bronchiectasis interbolive empyema, lung absects and enhirements and tumors common to the mediastimum. In this differentiation fluorossopic roentismographic and spour examinations will be of aid. The blood picture of an anima with leucovitosis and neutrophile in crease is most characteristic of malienance.

In corclusion the authors state that there seems to be little evidence to support the theory that the ircrease in the incurers of long carcinoma is due to the indicent epideme of long carcinoma is due to the indicent epideme of long long to the inhalation of irritating substances such as smoke and gas According to the most recent statistics carcinoma of the lungs is about seventh in frequency among madignant lesions cancer of the stomach being first.

CERLI GASTLI MD

Morrison J T The Surgery of the Lung Bet J Surg 1926 EN 94

War experience taught that while a sucking cound is dangerous a widely opened thorax permits ext " ve aperative procedures on the lung with comparative safety There has been controversy with regard to the conditions under which respira tion is carried on in these cases. Some ins st on the pliability of the mediastinal curtain and show that alterations in pressure on one side are a atomatically and fairly accurately reproduced on the other The corollary of such a view is that given the cross sectional .. e., of the traches and the patient's vital capacity it is merely a mathematical problem to determine how large an opening may be made in either one or both aides of the thorax before the lungs vill cease to function and death will result from asphyxia The area of such openings has been computed at from 64 to 10 sq cm

Honever large thoracotomies far exceeding the highest estimate of the margin of safety have been made. According to Duval's experience safety has in securing a very mide opening into the chest and as complete a collapse of the lune as possible on that si le

Morrison maintains that the truth his somewhere between these two positions stating that while the mediastiral currain is no doubt a structure most sensitive to variations in pressure there is surely a himit to its plainbility even in health

The author describes his experimental operations in detail and discusses the results he obtained and

their application to chinical cases

SIMILEL KAIN MD

Bendore, R. A. The Viccianism of Localization of Gas in the Pieural Cavity and Its Clinical Application in Pneumothorax Therapy inch Sure 1026 xm 160

The difference in the elasticity of the discussed and undiscussed input issue as nell as the difference in the intrapulmonary and intrapleural pressure makes it possible for the gas introduced into the pleural casity for the industion of artificial pneumothorax to localize itself over the discussed portion without causing any considerable decrease in the function of the unaffected portion of the treated lung provided it is administered in small amounts and at frequent internals.

These pneumody name principles should be made use of in every case treated by artificial pneumo thorix. They are bust applied however in cases of the evendative type of pulmonary tuberculosis of not very long duration which are fixe from pleural adhesions. In such cases, pneumothoriax therapy is to be considered not as a last resort but as the treatment of choice since it is followed by a more speedy and complete anatomical and functional recovery thin other measures.

In cases of the productive or proliferative type of pulmonary tuberculous these pneumody name prin rules of gas localization usually cannot be applied because as a rule the condition tima a mild clinical course, and when severe symptoms are first main fested it is usually far advanced and there are marked pleurite a libesions which render therapeuts pneumothorax mapplicable. In such cases thoraxo plasty is the indicated treatment provided the contradictal time is in cool condition.

Slight or even moderate involvement of the other time, is not a contra indication to artificial pneumo thorax of the expansile type because the function of the unducased portion of the treated lune, is not curtainly by it much and little demand is made for extra respiratory function of the other lung. In such asset the amounts insufflated should vary from co to 400 cm of air and the internal from the lot ten days. No generalization is possible. Each case should be treated according to the patients wital capacity and according the extent of the involved and unital older portions of the treated lung as determined by frequent roentgenescopic observations and produced spirometers.

RATER R BETTMAN M D

Lanos J The Diagnosis and Treatment of Interlobar Pleurisy in the Adult (Remarques sur le diagnostic et le traitement des pleurésies interlo baires chez l'adulte) Paris chir , 1926 XVIII 137

In the adult, interlobar pleuriss occurs most fre quently on the right side and the pus becomes en cysted in the anterior part of the interlobar incisure. The classical syndrome described by the tertbooks is hardly ever seen. The general and functional symptoms—persistent fever, attacks of coughing, more or less copious expectoration, and impairment of the general health—quite frequently suggest tu herrulosis.

While it is very difficult to detect this type of pleurss by clinical examination, the diagnosis is greatly facilitated by reentgenoscopy. The picture from in front is not very characteristic, showing only a hazy obscurity detached from the diaphragm but the pathognomonic sign is furnished by examination in profile and obliquely when a spindle shaped shadow corresponding to the incisure is seen

The treatment is surjucal drainage. A drain should be left in place for eight days. During this time impation with an antiseptic solution may be given Great care must be taken to keep the wound clean. The dressing should be changed every day.

The roentgen picture enables the surgeon to make the incision at just the right place and is much more certain and less dangerous than exploratory punc

ture
An illustrative case is reported

AUDREL G MORGAN M D

ESOPHAGUS AND MEDIASTINUM

Moersch, H J and Conner H M Hysterica Dysphagia Arch Otolaryngol, 19 6 iv 112

Hysterical dysphagia is a type of functional dysphagia characterized by a sense of obstruction at or about the oxophaged introtus practically always associated with pallor and secondary anæmia and frequently associated with enlargement of the soleen

The line of demarcation between hysterical dysphagia and other types of functional dysphagia is not always clear although, as a whole hysterical dysphagia represents a very definite chinical entity

The authors studed sixty five cases, all those of women. The average age for the group was 4,5 vears and the average duration of symptoms eight years. The spleen was palpable in twenty cases and the average harmoglobin for the entire group was 4,8 per cent. The peculiar pallor in these cases somewhat resembles that of perincious anæmia. Roentgeno logical examination of the crophagus was negritive in fitty cases but csophagoscopic examination showed that the mucous membrane of the upper part of the csophagus was day and atrophic with loss of elasticity, and that it hied easily on manipul lation.

The treatment consists in passing into the stomach a plain esophageal sound guided by a previously

swallowed silk thread. The size of the sound is immaterial. Usually nothing further is necessary to effect a cure except reassurance. The dysphagia dis appears, the blood picture is improved at once, and the spleen may return to its normal size. If the trouble recurs, a second passage of the sound will always afford rehef

Abel A L The Treatment of Cancer of the Esophagus Brit J Surg, 1926 xiv, 131

Able endeavors to prove that cancer of the csoph agus can be dirgnosed early, that it is a relatively hemgin mild type of malignant growth that radium, the X-rays and diathermy are of very little value in the treatment and that the operations suggested are feasible and there is no physical or pathological reason why they should not give a successful result

Cancer of the esophagus is a common disease, one of every twenty malignant growths heing situ ated in the gullet. For several weeks or months there is a sense of oppression or weight beneath the sternum due to slight dilatation of the esophagus from the early narrowing of its lumen and colicks consistions of oppression are caused by increased muscular contractions of the organ. To overcome the sense of fullness while eating the patient is obliged to take considerable draughts of fluid. Ultimately there is a distinct obstruction to the passage of food. The dysphagua is progressive at first heing noticed with solids, later with semi-solids, and finally with liquids.

In the typical roentgen picture the barrum passing through a malignant stricture presents an irregular ity of its lower extremity (rat tail like appearance) On esophagoscopy, the wall of the esophagus ap pears relatively immobile and stiffened. The appear ance of the tumor varies according to the type of the growth. The tumor of the proliferative variety has a cauliflower like appearance, is covered with a blood stained fortid discharge and bleeds very In the tumor of the ulcerative type, the hard, raised irregular and everted edge is first seen. the ulcer appears somewhat raised, and the sur rounding wall dense and indurated. A light touch with a swab removes blood stained foetid material In ca es of the scirrhous type of growth the lumen of the œsopbagus is seen to be greatly narrowed and deformed, while the mucosa appears retracted, red smooth, and immobile Whenever possible a portion of the growth should be removed for micro scopical examination

Frimary careinoma of the essophagus may occur at any level, but is usually found at either extremity or in the narrowed portion where the esophageal lumen is diminished by the pressure of the left bronchus. The middle pertion of the essophagus is most commonly affected, the lower portion next most frequently and the upper end next most frequently the incidence being loughly 3 2 1. Cancer of the essophagus spreads by direct extension and by the lympbatics stream. It is slow to affect the lympbatics and to form metastases.

The majority of cases in England are treated by gastrostomy alone. A further step is repeated dila tation of the stricture. Intubation may be beneficial but is associated with the danger of resophago tracheal fistula resulting in death. In the treatment of malignant disease in general radium eauses a regression of the growth at the site of application, but sloughing is increased hamorrhage is brought on more quickly and the periphers of the growth or the infected glands at a distance are stimulated to increased activity. However in the exophagus which is unique in its position as an anatomical structure some of the contra indications to radium may be disregarded. While radium therapy is not without a certain degree of danger it frequently causes a great improvement in the patient's condi-The radium is best applied through an erso phageal catheter Judging from the results obtained in cases of mabgnant disease of the mouth and pharyny diathermy should have an effect equal to if not better than the application of radium

18

The cure of eancer requires the radical removal of the disease and in the absence of contra indication such as metastases or extreme emactation this should always he attempted. A fairly large propotion of cases are surgically operable when they are first seen by the medical practitioner and from 30 to 50 per eent are operable when they are seen by the surgeon. The chief dangers of operations upon the extractal cospinguis are (1) shock which is easily comhated. (a) harmorrhage which is not difficult to deal with and (a) infection or so called sepsis

The operation upon the cervical asophagus con

sists of three stages (x) exposure (2) excision and (3) reconstruction. It is usually advisable to attack the growth from the right side of the neck in order that manipulation may not be hampered by the thoracic duct. An estimate having been gained of the breadth of the flap required to restore the con tinuity of the gullet a flap is made with its base either at the right of the left side of the neck. The sternomastoid muscle is divided at its origin from the sternum and clavicle and its apterior border is sutured to the prevertebral region. The affected portion of the assophagus is then seen lying behind the trachea with the prevertebral muscles and the sternomastoid behind and to the outer side. The cesophagus is separated from the adjacent structures by very blunt dissection and the region of the growth carefully examined to determine the possi bility of a radical cure. The incision around the growth must include 34 in of apparently healthy esophageal wall. The paratracheal para esopha geal and inferior deep cervical glands are exposed and may be removed on both sides of the neck The flap of the skin is then turned inward and brought to he in the position vacated by the piece of te ophagus removed

For cancers of the oscoplagus which are satuated in the middle two fourths of the gullet posterior mediastinotomy must be performed. As a prelim nary procedure to the major operation, a gastros toms or jejinostomy is done. After the dehydration has been overtome the condition of the blood pressure requires attention. The blood pressure must remuin above 23 mm. Hg (83860ic) and the hamo globin should not be jess than 60 per cent

The success of the operation depends in large measure upon the skill of the anaesthests and the efficacy of the method of inducing anaesthesia. As it is extremely easy to infect the pleura the operations for partial or total escophagectomy which are most apt to be successful are those which do not enfaul opening the lumen of the gullet in situ After the operation blood transfusion is perhaps of the greatest and and may be performed even if it was

done before the operation

If the growth is situated at or above the level of the aortic arch the incision is made in the right side of the back of the thorax. If it is below this level the incision is made on the left. A 3 or 4 in portion of the lowest rib exposed is resected sub periosteally. The intercostal nerves are injected with absolute alcohol for anoti association purposes The intercostal arteries are tied at both ends as each rib and artery is severed. The osophagus is sepa rated from the loose cellular tissues in which it has hy means of blunt dissection. The skin flap is then placed anterior to-that is deep to-the ecophagus and sutured as nearly as possible to the skin of the back from which it was originally divided growth and an adjacent 11/2 to 2 in portion of the exsophagus on either side of it then lie at the bottom of a groove in the back

Some 7 to 10 days later the cancer hearing area of the excophagus is removed with as much normal tissue as feasible on either side of it Lastly the remaining inner and outer edges of the skin wound are undermined and drawn together the newly formed excophagus being thus made subcutanost Operation for the radical removal of the lower 2 to 3 in portion of the excophagus is best performed by means of a low left sided posterior mediationtomy.

and an ecophagogastrostomy

Cases of cancer of the esophagus arising at the cardia whether primarily resophageal or primarily gastric in origin usually demand an abdominal laparotomy

MORELS II KARY M.D.

Schreiner B F Eschelman K F and Kress L C Radiation Therapy in Cancer of the Esophagus J Cancer hesearch 1926 x 208

This article is a report on sixty three cases of eancer of the ecophagus. Fifty one of the subjects were males. Thirty five of the males had used tobacco.

Of thirty six tissue specimens examined thirty two showed epithelioms and in nineteen there was pearly body formation. Of four which showed adenocarcinoma, three were metastatic from the stomach.

Radium was introduced by placing the tandem tubes through the ecsophagoscope for periods of from 300 to 800 mgm brs per tube Recently the X ray has been used with the radium Gastrostomy must be done early

In none of the cases reviewed was a chincal cure obtained. One patient survived for a year and four months but most of the patients died within eleven months.

Paul W. Sweet M.D.

Steindler A Posterior Mediastinal Abscess in Tuberculosis of the Dorsal Spine Illinois W J

In over 50 per cent of cases of tuberculosis of the spine the dorsal segment is involved, and about 45 per cent of cases of dorsal tuberculosis are complicated by abseess formation—In about 15 per cent of the latter the abscss projects into the thorence crivity, constituting a dangerous mediastiral complication. Mediastiral abscesses may extend laterally, posteriorly, into the spiral earnal forward, or downward.

For many cases of mediastinal absects, and especially for those in which parapligan results from pressure of the absects on the cord, the author advocates costotrans ersectomy. From the findings at autopsy in which the communication between the mediastinal absects and the spiral canal could be demonstrated he concludes that execution of the posterior mediastinum by costotransversectomy is a thoroughly rational procedure.

A GOTTLIFB, M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Hunter R II The Etiology of Congenital Ingul nat Herma and Abnormally Haced Testes Bril J Surg 1926 xiv 125

In the newly born infant the testis processus vaginals gubernaculum and fascial coverings can be hitted out of the scrotum aithout tearing any bing but a little superficial connective tissue. The gubernaculum is therefore not attached to the skin of the scrotum and the testis cannot be drawn from the abdominal cavity to the scrotum by its control to The gubernaculum at first acts as a kind of anchor to the testis. In the human fetus its largest strand normally passes to the scrotlar ground adforms the poth for the large growing cells which cause the growth of the processus vaginals.

The processus vaganalis develops as a cone shaped discreticulum of pentioneum and just before the descent of the testis its apex normally reaches to the fount of junction between the anterior abdominal wall and the scrotium During the descent of the testis the pentioneum which is adherent to the proper fibrous tumo of the gland is drain down into the scrotium. If the processus vaganilis is longer than normal before the testis descends the excess of pentioneum will become folded upon sixed and form a hernal say. Worsts II karw M.D.

Stich R. Mistakes in Hernin Operations (Ueber Fehler bet Hernienoperationen) Zentralbi f Chir 1926 hin 884

In operations for sholing herma the intestine may be very easily injured. The author cites a case in which a 12-cm portion of the descending colon was removed without the surgeon's being aware of the accident and death resulted from perctonsits.

In a case in which an operation was performed for incarcerated femoral hermas adherent omentum and a loop of small intestine were found in the war row neck of the hermal size. After enlargement of the hermal aperture and resction of the omentum tentionally replaced over the posterior margin of the tentionally replaced over the posterior margin of the However during the care of the hermal size the mistake was recognized and promptly corrected. The author calls attention also to the danger of

bladder injuries during operation for inguinal her ina. These are especially ant to occur when the abdominal walls are poorly developed and the surgoin in his desire to include as much tissue as possible in the Bassim suture introduces his needle to deeply. This mustake may be avoided by placing the finger under the edge of the muscle before mire during the needle. **NEETERS (22) Long J W. The Value of Enterocolostomy Combined with Enterostomy in Acute Peritonitis Surg Gance & Obst. 19 o vin 61

Long discusses the value of enterocolostomy in cases in which a gargerious appendix Jing foo in the pelvis produces local peritoritis and the pen nontine attacks the adjacent coils of the intestines causing a 13 pixel adjanamic ileus. The ileus occurs at two points—in the terminal ileum and in the pel we portion of the sigmoid. In such cases appendix from with enterostomy gives the best results.

In cases in which the peritoritis ascends and be comes diffuse enterostomy cannot give relief in matter where the tube is placed as the fleus is of a duplex character. For such cases Hanglic advises anastomosis of the small intestine to the transverse colon and a excostom. Long reports two cases of obfuse peritoritis in which he used this operation in this success.

klug W Is the Thoracle Duet Suitable for Natural Drainage in Peritonitis? (Pignet such der Duetus thoraceus zur mitterlichen Drainage bei I entonitis?) Denitiche Zische f Chie 19 5 even 310

Because of a successful result obtained by lap arotomy stragation and the establishment of a thorace fistula in the case of a 20 very old patient with personnis twelve hours after the perioriation of a gastric ulter the author attempted to determine the importance of the thorace duct as a natural drunnee route in perstonitis by means of experiments performed upon dogs.

In the first series of experiments necross of the pancreas was produced by severing the glind from the duodenium or by ligating the pantreane vessels and on the following day the thoracie duct was opened in the neck. The lymphatic fistula secreted very weally and a fital termination could not be neceenated.

In the second series of experiments the therace duct fistuals was formed first pentonities was then produced by the introduction of a drain into the abdominal cavity and a flow of I jumph from the fistuals was stimulated by the injection of non sterile physiological estit solution into the abdominal cavity. Again the fistual was found to have no favor able effect upon the peritodities.

When injections of indocarmine were made into the abdominal cavity there was no straining of the lymph discharged from the fistula although the

unne became colored quickly.

The author concludes that resorption from the pentoneum occurs chiefly by way of the blood stream and that thoracicotomy is of no therapeutic value.

Jenn (Z)

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GASTRO INTESTINAL TRACT

klein, E Gastric Motility III The Mechanism of the Pylorus Arch Surg , 19 6 vn, 1224

The author reviews considerable evidence disprov ing the theory of Cannon that the discharge of gastric contents depends upon the acidity on the

gastric and duodenal sides of the pylorus In 1913 Cole reported that there is no roentgeno logical evidence in man of a periodical opening and closing of the pylone valve independent of the gas tric cycles Klein observed that chyme was pro pelled into the duodenum with each antral contrac tion, and other workers have since made similar observations Wheelon and Thomas have found that the antral contractions always occur during a stage of pyloric relaxation and they conclude that if acid acts to regulate the pylorus it must act in

klein therefore regards it as justifiable to assume that the pylorus is normally open at the height of antral contraction, and that every antral contrac tion is normally followed by a discharge of chame through the pylorus His conclusions with regard to the effect of acids and other substances on the

a similar way also on the antrum and stomach since

the motility of the antrum determines the motility

pylorus are summarized as follows

of the pylorus

I The presence of acid on the gastric side is not nece sary for the opening of the pylorus

2 Normal concentrations of acid on the duodenal side do not keep the pylorus closed

3 Concentrations higher than normal in the stomach cause a slowing of gastric peristalsis, and while this is especially notable in concentrated experimental solutions it is noticeable also within the

limits found in hyperchlorhydria 4 Very strong acids cause inhibition of peristalsis and sometimes reverse peristalsis and vomiting

5 The site of origin of this reflex is the duodenum 6 The theory of acid control on both sides of the pylorus (Cannon) or from the duodenum alone does

not explain all known facts

Mechanical stimulation of the pylorus is next considered The higher the fluid content of the food the more rapid its discharge. It has been found experimentally that whenever a solid particle of food reaches the pylorus it excites a retrograde peristalsis which propels it away from the sphincter. It is therefore very likely that the stimulus for these retrograde waves is in the pylorus. Hirsch first called attention to the fact that the fluidity of the stomach contents is one of the most important fac tors in gastric emptying Cannon also in spite of the great importance he ascribed to the chemical control of the pylorus concluded that the addition of hard particles to the food causes a delay in emptying

The author describes two types of pyloric closure The first is the closure maintained by the pyloric tone when the pressure on either side of the sphine ter is not sufficient to overcome it. It is overcome, on the one hand, by each advancing gastric wave, and, on the other hand, may be overcome by retro grade peristalsis in the duodenum resulting in intes tinal regurgitation. The second type of closure occurs when each peristaltic wave reaches the sphincter and after it has propelled chyme into the duodenum This closure effectually prevents regurgitation and always occupies the same proportion of time in the gastric cycle

ANTHONA F SAVA, M D

Assmann, H Gastric Neuroses in the Roentgen Picture Acta radiol 1926 vi 85

In nervous conditions involving the stomach such as bysteria tabetic crises, tetany, and hæmatopor phyria, roentgen examination often reveals striking variations from the normal in the gastric tonus and peristalsis and, closely related to these, the shape of the stomach, the emptying time, and the condition of the muscularis mucos e

In some instances changes due to increased tonus of either the vagus or the sympathetic nerve are found, but in the majority of cases the changes are the result of disturbances in both of the antagonistic nerves There may he also in such cases decided oscillations in nervous stability toward either side

As the variation in the findings is characteristic of nervous disturbances, repeated observations will prevent confusion of the condition with an organic disease which it may resemble during a single examination

Cole, L G The Etiology of Gastric Ulcer Acta radiol 1926 VI 503

The sulcus angularis is a mucosal apron that hangs down or projects about one third the way across the lumen of the stomach between the corpus and the pyloric canal

As it is a functional contraction rather than an organic fold it is not easily studied at operation or autopsy. It may be observed fluoroscopically or in single films, but is best studied in serial roentgen pictures made with the patient in the erect position after the administration of barrum suspended in a fluid menstruum

This apron like fold of mucosa is attached to the lesser curvature at the point where Aschoff says the blood supply is already taxed to its limit. At this area, about 4 eq cm of mucosa are supplied with blood by about 1 sq cm of gastric wall

The cramping of the blood vessels which, accord ing to Bergmann's spasmogenic theory, is an impor tant cause of gastric ulcer is a constant factor in this long apron like fold, whether or not the stomach

is in a state of spasm

There are four types of gastric spasm, each of which the author describes briefly All of the peris tahe sules except the suleus angularis relax during diastole and move from one area to another during each gastric cycle The sulcus angularis 'marks time during systole and does not relax during diastole Therefore the blood vessels in this region of the sulcu are kinked during diastole as well as during systole and in addition to the diminished blood supply of Aschoff there is also the kinking of Bergmann

The concentrated digestive secretions of the pentic glands follow the ruge from the fundus and impinge on the proximal surface of the sulcus angularis which deflects them into the chyme in the sinus of Forssell The proximal surface of the fold is there fore subjected to the strongest gastrie secretions before they are diluted by the chyme

Trauma particularly the trauma associated with comiting referred to by Virchou is greatest on the proximal surface of this mucosal fold since it is pressed against the pylonic canal which according to klee is closed during the act of comiting

The mechanical trauma produced by the gastro scope the stomach tube and particularly the string employed in the string test for the diagnosis of eas tric ulcer are to be avoided

Infection may be a factor in the etiology of gastric ulcer but alone it causes only a temporary ulcer which heals rapidly

The sulcus angularis is particularly susceptible to the antemicareas of Aschoff the spasm of Bergmann the trauma of Virchow and the infections of Mos kowicz Konjetzny and Rosegow and is worths of serious consideration as a factor in the etiology and

Wolfer J A Chronic Ulcer of the Stomach Its Experimental Production and Its Effect on Gastrie Secretion and Motility 1nn Surr to 6 lytys 80

In an endeavor to determine whether peptic ulcer per se causes any change in the secretory and motor re ponse of the stomach the author carned out a series of experiments on dogs. In the past re earch workers have been unable to produce an ulcer in the dog's stomach unless the animal was in a cachectie state or there was 4 gross interference with anatoms cal or physiological conditions. The author found however that exposure of the mucosa of the stomach to 110 kv 5 ma \ ray irradiation always resulted in the production of a lesion having many of the

gross characteristics of peptic ulcer in man Wolfer studied seven dogs for several months to determine the gastric secretory response to a stand ard test meal and the emptying time of the stomach after the ingestion of a standard barium meal. He then produced an ulcer in the stomachs of these

dogs and studied its effect

pathogenesis of gastric ulcer

It was found that when the experimental ulcer was placed on the posterior wall of the stomach near the lesser curvature 2 in from the pylorus there yas no demonstrable change in the secretory response or the emptying time of the stomach and when the ulcer was placed on the posterior wall near the lesser curvature 1 in from the pylorus the secretory response remained unchanged but the emptying was distinctly delayed. The author at tributes this delay to pylorospasm due to involve

ment of the local intrinsic nervous mechanism by the ulcer placed close to the pylorus

Manuilow A 1 The Effect of Bile on the Function of the Gastric Glands in the Dog After Chole cystogastrostomy (Der Einfluss der Galle auf die Lunktion der Magendruesen beim Hunde nach Cholecystogastrostomie) La an mid J 1925 xx:

In a dog with a Heidenhain Pawlow 'small stomach in which a fistula was formed between the stomach and the gall bladder it was found that the gastric secretion particularly the secretion of hydrochlorie acid was increased by the feeding of meat and fat and decreased by the feeding of bread and milk. The digestive strength of the gastric secretion was reduced by both feedings

At autopsy the gastric mucous membrane appeared unaltered but the gall bladder was dis tended its mucous membrane was found to be al tered microscopically and the epithelium was pair and auxinic Within the gall bladder there were several foreign bodies which must have come from the stomach

DERY (Z)

De Takats G The Perverted Physiology of the Stomach After Gastric Operations Im J M Sc 1926 class 45

De Takats reviews a large series of cases from the standpoint of gastric function after the most fre quently performed gastric operations especially

gastrojejunostomy and partial gastrectomy In 274 cases in which gastrojejunostomy was per formed the operation was followed by complete rehef in 50 per cent fair results in 22 per cent and poor results or recurrence of the symptoms in 8 per cent The cases were followed up with \ ray examinations and chemical analyses of the stomach contents. There was no reduction in the gastric acidity

Of 200 cases of partial gastrectomy good results were obtained in 84 per cent fair results in only to per cent and poor results in only 6 per cent. The free hydrochloric acid was lowered on the average from 30 points to 2 points while the total acidity was lowered from 56 points to 15 points functional results were therefore much better than in the cases in which gastrojejunostomy was done

The mortality of resection compared favorably with that of anastomosis This operation eliminates the danger of malignancy on the basis of ulcer and of ulcer perforation and hamorrhage. In the author's series of cases 25 per cent of the gastric ulcers

showed histological evidence of cancer HARRY W FINK MD

Mount T B Two Cases of Stricture of the Bowel by Misplaced Endometrial Tissue Brit J Surg 29 6 YIV

While grafts of true endometrial tissue appear to be denied from the uterine and tubal mucosa very similar glandular inclusions may result in certain situations from developmental abnormalities of certain embryological structures or from metaplasia of the serous lining of the abdominal cavity or of the epithelial covering of the ovary in inflammatory lesions of these structures

The following classification includes all possible

varieties of the condition

1 Direct or primary endometriosis 1 e misplaced endometrial tissue in the uterine wall due to the direct invasion of the myometrium by the mucosa lining the uterine cavity, causing the adenomyoma of mucosal origin A similar condition occurs in the wall of the tube from the invasion of the tubal

2 Peritoneal or implantation endometriosis In this condition there are found scattered through the pelvis implantation like deposits of endometrial tis sue similar in their distribution to the peritoneal implantations of cancer and often invading the

underlying structures

3 Transplantation endometriosis in which endo metrial tissue occurs in the scar of the abdominal incision after an operation on the pelvic organs

4 Metastatic endometriosis This condition in cludes extraperitoneal endometrial tissue in situa tions similar to those of metastases from cancer of the pelvic organs

5 Developmentally misplaced endometrial tis

The author cites two cases of peritoneal or im plantation endometriosis and discusses the etiology. symptoms and treatment SAMUEL KARN M D

Adams J E Duodenal Ileus Brit J Surg 19 6 x1v, 67

The author reports cases of duodenal ileus and draws the following conclusions

Chronic duodenal ileus may be due to compres sion of the fourth part of the duodenum by the superior mesenteric vessels and the drag of the mesentery

It may be secondary to gastroptosis alone

It is doubtful how far it is a manifestation of general visceroptosis, but the latter condition may be responsible for it

The dilatation of the duodenum may affect pil manly either the first or the third part of the

duodenum

The appropriate treatment in most cases is duo denojejunostomy, but in a few cases there is such a pronounced kink at the juncture of the first two parts of the duodenum that gastro enterostomy is likely to give the best results

SAMUEL KAHN M D

Higgins C C Chronic Duodenal Ileus with a Report of Fifty Six Cases Arch Surg 19 6 TIII T

The relationship between acute dilatation of the stomach and obstruction of the duodenum due to compression by the root of the mesentery has be come recognized in recent years, but the chinical and

nathological manifestations of chronic obstruction of the duodenum have received little attention. In considering the etiology of dilatation of the duo denum it should be borne in mind that any or all of the duodenum may be involved Four possible causes are (1) congenital anomalies, (2) factors favoring the formation of adhesions (3) factors fa voring compression of the duodenum, and (4) factors favoring a pelvic position of the intestines

The symptoms depend upon the degree of the obstruction Complete obstruction is often associ ated with acute dilatation of the stomach From twelve to seventy two hours after an operation the nationt becomes nauseated, the abdomen becomes distended and large ourntities of bile stained fluid are consted Complaint may be made also of epi eastric pain or discomfort. The pulse and re pira tion increase, prostration and aphydremia ensue

and death results

In the majority of cases of chronic duodenal ileus the obstruction is incomplete and the attacks of distress simulate the e of gall bladder infection or gastric ulcer The attacks are often associated with intense headache. The headache is alleviated by the comiting A diagnosis of migraine is often made At first there may be intervals of freedom from symptoms but later the trouble is continuous Anæmia and weakness with malaise and toxic symp toms gradually develop. In obstruction of the first portion of the duodenum the symptoms are similar There may be saun to those of pylonic obstruction dice and pain over the gall bladder. The correct diagnosis is celdom made in these cases until an exploratory operation is performed

The non-operative management consists in postural treatment (i.e. the knee chest position or lying on the abdomen or the right side to relieve the strain upon the mesentery) duodenal lavage, a high calone diet, the wearing of an abdominal corset, and exer cises to strengthen the abdominal wall

The operative treatment is duodenojejunostomy This has given uniformly good results

HARRY W FINE M D

Wheeler Sir W I de C Multiple Polyps of the Colon Brit J Surg 10 6 xiv 58

Polyposis of the intestinal tract is not as rare as was formerly supposed The relative frequency of polypi in the rectum is probably more imaginary than real since the ease of diagnosis in the rectum is in sharp contrast to the difficulties encountered when other portions of the alimentary canal are invaded

There is a close association between ulcerative cohtis and polyposis Ulcerative colitis occurs in children as well as in adults

In the majority of cases polyposis sooner or later becomes malignant

Polyposis of the colon in early life may result in a condition of infantilism

Polyposis of the colon cannot be diagnosed unless the polypi are seen or felt Satisfactory \ ray and proctoscopic examinations are possible only in a certain percentage of cases

When multiple polypi of a very diffuse nature are present in the colon there is a characteristic infil tration and loss of flevibility in the colonic walls

The increase in the weight of the colonis very striking. The prognosis is usually unfavorable unless colectomy is performed but deostomy cacostomy or appendicostomy followed by irrigation may some times be successful. Saurell Lair. WID.

Courboules and Sauté. A Case of Acute Appendicits with a Slow Pulse and Complete Inversion of the Abdominal Viscers (Sur un as a appendicit angue avec pouls relent et unersion totale des organes). Bull et mém. Soc. nat. de chir. 1926. In 122.

The authors report a case of inversion of the viscera in which the condition was recognized when the patient entered militars school. When the patient suddenly developed pain in the left that fossa with nause and vomiting a diagnosis of appendicts was made. The evolution of the abdominal symptoms and physical findings (with the exception of the pulse) was typical up to the time operation was performed thirts eight hours later. The operation was delayed because of symptoms of meningeal irritation.

The pulse normally, varied between 65 and to but during the illness fell from 44 the first day to 34 on the tenth postoperative day. A small hema toma then appeared and the pulse rose to 80 but it soon fell again to 70. The temperature ninch was normal during the acute stage became slightly sub normal during the nervice from 415 sept.

This report adds another case to the long series of cases of acute abdominal conditions in which the pulse was entirely out of accord with the other symptoms. Assert I De Groun M.D.

Boas I Chronic Appendicitis from the Stand point of the Internist (Die chroniche Appendicitis com Standpunkt de Interniters) 1- rha ill d Ges f Verdauungs ii 5t ff chs litrankh 1926

As chronic appendicitis does not have a truly characteristic disea e picture the diagnosis is uncertain. In every case of chronic appendicitis however there has been a preceding acute attack.

Adhissions do not play as important a role in the sequelia of appendectoriny as its often asserted. A large number of persons who have been subjected to appendectomy are suffering from a disease or dution of the account which was present alone or combined with inflammation of the appendix before the operation. A close relationship between the occuring and the appendix cannot be demed and pathological conditions the two organs have such a definite symbiosis that from the biological as well as the clinical standpoint it is an error to consider them separately. For this reason the clinical picture of chronic apprendictits is not will defined.

The author ascribes little importance to points of tenderness to pressure since variations in the post tion of the excum and appendix may lead to serious error in a diagnosis based on such findings. When there is hyperalgesia of the skin the demonstration of tenderness to pressure is difficult as by peraleesia of the skin may occur alone or in association with appendicates. In such cases the diagnosis is facili tated by the use of Bier's suction cups If the hyperæsthetic zone is brought into a condition of hyperamia twice daily for periods of half an hour for three or four days the hyperalgesia of the skin diappears while any deep tenderness remains. By this simple method the author has been able to rule out a large number of cases of p eudo appendicitis On the other hand after the removal of the cutane ous hypersensibility a clearer conception may be gained as to the presence of an inflammators condition in the region of the appendix. The author ascribes particular importance to a circumscribed painful point in the vicinity of the attachment of the appendix in cases of so called appendicular colic

A further question discussed is whether the absence of a tender point at or in the vicinity of the attachment of the appendix in the execum excludes the presence of chronic appendicits. The attachanswers this question in the negative. He then denies with emphasis the claim that even in a large majority of normal person tendenies is demonstrable over McBurney's point or other points. This possible only when the region of the appendix is palpated roughly. Palpatory demonstration of the appendix is full is purely a connectine it is of no

practical value in diagnosis

Slight variations in the temperature are of some significance. There may be transitory elevations of temperature due to acute exactebitions of a chronic inflammation or there may be a continuous mild fever. In the latter condition judgment must be cautious since the cause of the fever may lie in some other organ. In the author sopinion the functional testing of the motifity of the appendix by means of the roentgear any mild ultimately prove to be a method of diagnosing chronic appendicitis superior to all other procedures.

With regard to the differential diagnosis. Boas calls attention to the fact that a latent and not well developed inguinal herina may simulate chromic appendicitis. He has permanently relieved the symptoms in such cases by having the patient wear 4 truss.

The question as to whether there is any effective internal (non surgeral) treatment of appendiction must be answered in the negative of ar as organic changes in the appendix are concerned. However many surgeal operations are merely a sort of test treatment. There are also instances of psychogenic curso of appendicties. The author cells attention to the fact that in recent years the serious sequelated to the consideration of the serious sequelates are also instances of psychogenic cuts have been discussed by many distinguished surgeons.

Only after the appendix has been removed do we stand again upon a firm ther-peutic foundation Doubtless from this point of view we must count on an occasional unnecessary removal of the appen dix

However it is better occasionally to sacrifice a normal appendix than continually to grope about

in diagnostic and therapeutic uncertainty

Appendectomy is indicated also in cases of constantly recurring appendicular cohe and is recommended for patients with recurring attacks of pain in the cacum or appendix in whose furnhes there have been several cases of severe appendicits. It appears to the author that the great hesitancy and the doubting attitude of many surgeons with regard to the disease picture of chronic appendicits. Which extends to the placing of indications for operative interference overreaches the mark. Colley (2)

Deaver J B External Facal Fistula Following Appendicates Ann Surg 1926 IXXXII 78

The formation of a fæcal fistula after acute appendictits is most common in cases in which drainage has been used, pressure necrosis from drains being the most constant factor responsible Occasionally, however, a fistula follows the spontaneous rupture of an appendiceal abscess

There seems to be a special tendency for fistula to develop in cases in which the appendix is per forated close to the cecum. This tendency is due no doubt to the difficulty in inverting the appendix cal stump and the friability of the tissues which

must be used for re enforcement

Of 4 655 cases of acute appendicutis treated at the Lankenau Hospital Philadelphia, a feecal fistula de veloped in 5 per cent In 39 per cent it healed spontaneously, in 49 per cent it was operated upon, and in 30 per cent the patient refused operation or was told to return later.

The local and general results of a faceal fistula depend upon the distance of the fistula from the stomach and the amount of intestinal contents that escapes. As they cause death from maintion, fistular high up require operation earlier than those lower

As a preventive measure, gauze drains should be removed with the greatest care and the cavity flushed with normal salt solution to soften the secretions

In suppurative cases drains are essential In extreme cases the wound should be picked open even though hernia may result. In cases of suppurative appendictis with ulceration angulation and adhesion, the operation should be supplemented by an ileocolostomy above the affected bowel. This will usually prevent intestinal obstruction or the formation of a faccal fistula. If a fistula does occur after this procedure it may close spontaneously

Nearly all mixed fistulæ require operation, and a small percentage require two or more operations for their closure. Experience has shown that when a fistulous opening is surrounded by granulation tis sue neither suturing nor the packing of the sinus with gauze is of any avail

The author allows time for spontaneous closure In 55 per cent of his cases closure was obtained by inverting the fistula and using a re enforcing purse string sature. In 75 per cent an ileccolostom, was necessary because the lumen of the bowel did not allow the passage of the usual facal stream. In 23 per cent there was so much ulceration about the fistula that resection of the howel and ileccolostom, were nece. sarv.

Brisset Neoplasm of the Transverse Colon Extrption of the Neoplasm and of the Adhering Greater Curvature of the Stoniach en Bloc Cure (Néoplasme du transverse mojen, extirpation on un temps et en bloc du néoplasme et de la grande courbure adhérente guérison) Bull et mem Soe nat de chir 19 6 in 142

A woman of 37 years was operated upon for what was beheved to be a tuberculoma of the trans verse colon. The findings at operation confirmed this diagnosis. The tumor was the size of an orange and adherent anteriorly to the abdomind wall, be low with several coils of the small intestine and above with the stomach. The adhesions to the abdominal wall and small intestine could be separated without great difficulty. But those to the stomach necessitated the removal of the greater curvature by transverse section en bloc with the tumor. The colon was closed by end to end anastomosis.

The true nature of the mass, which was a car cinoma of variable structure—alveolar, colloid, and scirrhous—was revealed only by microscopic exami

nation

In the ten months since the operation the patient has remained well ALBERT F DE GROAT, M D

Monsarrat L W High or Third Degree Prolapse of the Rectum Brit J Surg 1926, xiv 89

High or third degree prolapse of the rictum is a true invagination beginning at the juncture of the pelvic colon and the rectum. In certain cases it appears to have some relation to anal spars. Such a prolapse may occur as an acute condition causing symptoms of obstruction necessitating an emergency operation.

Anatomically, it is a turning in of the rectum into

itself, beginning at the upper end

As a chronic condition, its main symptoms are discomfort and difficulty in defactation, a peculiar rectal pain described as paralyzing, and the evacuation of mucus and blood

It must be differentiated from carcinoma and mucous colitis. Its clinical course is distinguished from that of carcinoma by its intermittency. Instead of the daily small stools with mucus and blood which are characteristic of cancerous ulceration there are intervals of complete freedom from discomfort which may extend over many months. To exclude mucous colitis, sigmoidoscopic examination is essential.

SAMUEL KAHN M D

Lockhart Hummery J P Two Hundred Cases of Cancer of the Rectum Treated by Jertneal Excision Brit J Surg 1926 to 110

This article is a report of the re ulto obtained in coo consecutive cases of portned resection of the rectum for cancer. Cases in which the growth is situated at or above the rectosignoidal junction were not included in the series as they were dealt with by the abdommopenical operation. The large est number of the pritents was between e.g. und do years of age and the next largest number between 60 and 65 years. One hundred and trenty three were males.

The mot important predisposing cruse of the disease apart from age is the presence of simple adenomata in the bowel. One malgaant tumor in hibits the development of another primary growth An adenoma of the rectum is a definite precarcross.

condition to be dealt with as such

The operation for the removal of rectal cancer has passed through four periods. During the first period su geon removed the growth b splitting up the rectum and dissection out the growth. The second period was that of kraskes operation in which an incision was made over the rectum from behind and part of the sacrum was removed Both of these methods were applicable to only a few se lected cases and their results a ere almost invariable prior since serious sepsis was inevitable. The abdominoperineal operation which marked the next period was the first great advance in the surgery of rectal cancer and a decided improvement over previous procedures. It mut two important require ments viz free removal of the growth and surround ing tissues and a technique which made it possible to eliminate sepsis. The perineal operation should become the method of choice for all eases of true rectal cancer

The difference between the amount of it sate in moved by this operation and that removed by the abdominoperineal route is very slight. View more of the secondary glands in the base of attachment in the mesorection and rather more of the pelvic perioneum can be removed by the abd minal route but it is very doubtful if recurrence can be avoided when once trees condary glands have become involved. The few more inches of palvic colon that are re-ceted by the abdominal route probability makes no difference as regards recurrence since it is now known that spread along the based itself into the large property in the colon that are re-ceted by the medical few into the colon that spread along the based itself into the large property in the colon that spread along the based itself into the colon that spread along the based itself into the colon that spread along the based itself into the colon that spread along the based itself into the colon that spread along the based itself into the colon that spread along the based itself into the colon that spread along the based itself into the colon that spread along the based itself into the colon that are re-ceted by the abdominal for the colon that spread along the based itself into the colon that spread along the based itself into the colon that spread along the based itself into the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ceted by the abdominal for the colon that are re-ce

erouth

The operation is done in two stages a permanent colostomy being performed either a week beforband or at the time of the resection. Enher spinal or regional anaesthesa is used and is supplemented by introus oxide and oxygen or twilight sleep. The patient is placed in the semi prone position head down and if a male a catheter is tied into the bladder. The mus is first closed with a pursesting suture passed subcutaneously with a curved needle and an inclusion is made from the base of the sacrum.

passing around the anus and about 1 in from it. The coxy, is is removed by dissection and the deep fasts as divided transversely just in front of the secreum. Both levatores an in nucles are contained to to the pelvie wall with susports and the rectum is then dissected off the vagina in the lemale or from the urethra and prostate in the male until the pertoneum is rearbor.

The pertioneurs is opened and as much bone drivin down as possible. The mesorectum is clamped off as far hack as can be managed and divided. The clamps are titled off and after the pertioneal coat of the pelvic colon has been divided and stripped back for a short distrince the bowel is crushed and divided with a cautier. The stump is ligitured and turned in with a pursesting suture and the wound is the pertioneum closed vi the capital stitches. The wound itself is usually closed without drainage but in a lew cases a small rubber work is inserted.

The wound is not dressed for forty eight hours. At the end of that time the blades of a pair of dressing forceps are introduced between two of the stitches and any accumulated fluid is allowed to escape. The patient is allowed out of bed on the fourteenth day and be generally able to return home.

after from three weeks to a month

In 100 of the authors private cases there we care in 100 of the authors private cases there we care three deaths a mortality of only a per cert while in cases the cases was due to better nursun, and better general condutions and recuperative powers in the former off the three destines who care can the former cases was due to better nursun, and better general condutions and recuperative powers in the former off the three destines which occur sed in the private cases two were due to heart failure and one was the result of chronic servis.

The figures given show that when the operation is performed under the most favorable conditions the mostality is only 3 per cent and the incidence of five vert cure is 50 per cent. This compares most favorable with the statistics for cancer of the breast

MORRIS H LAIN MD

and other organs

Cuneo B and Bloch J C Resection of the Rectum in the Female (Contribution à Letude de l'amputation du rectum chez la lemme) J de chir 1996 XXVII 5 9

Cuseo and Bloch describe the anatomy of the female pelvis with special regard to the Numbatics and conclude that removal of the rectum in the female for carcinoma shauld be supplemented by bysterectomy and colpectomy. The two stage operation is the procedure of choice. In the first state the intestine is divided well above the lesson and the lower end is securely closed inverted and dropped back into the abdomin. The upper end is then brought through the skin according to a technique described by Cunco in 2017. The analysis of the control o

devised a simple light aluminum apparatus to keep the lips of the iliac anus together

The excision of the rectum may be done either by the perineal, abdominal, or combined route Several excellent illustrations of the routes are in cluded in the article. It is frequently difficult to determine beforehand which route will be best. In the authors opinion the abdominal route is easiest, the unfortunately it is feasible only when the cancer is high up in the rectum. When the growth is low down, it is never easy and frequently is impossible. Moreover, when the patient is fat or debilitated, and the Trendelenburg position is often contra indicated.

The perneal operation is more difficult and requires a very exact knowledge of the anatomical relations, but is less apt to cause shock and is the procedure of choice when the putient is fat and the neolasm les in the lower part of the rectum

The combined operation is indicated when the pelvis is very deep and the mass very low and it is impossible to remove the mass through the abdomen and the upper part of the rectum through the perincum. It may be indicated also when the tumor is high up but has a very short mesentery.

The pre operative preparation consists in the subcutaneous administration of 500 ccm of serum daily for three or four days preceding the intervention, the use of digitalis for several days to support the heart and rectal lavage. At the time of the operation the artificial anus is sealed over to prevent contamination of the operative field.

The abdominal operation which is a combined Wertheim and Hartmann procedure, consists briefly in separation of the anterior surface of the uterus and vagina after liberation of the ureters separation of the peritoneal attachments and exposure of the lateral and posterior surfaces of the rectum and section of the rectum and vagina as far down as possible with the establishment of vaginalor perineal drainage. It is divided into four steps

ABDOMINAL OPERATION

Step r Under spunal anosthesia a median lapa rotomy incision is made, the suspensory ligaments of the ovaries and the round ligaments are tied and cut, the vesico uterine peritorical sheet is cut and the vagina and uterus are separated from the hlad der as far down as possible. The ureters are then isolated and the uterine and vaginal vessels are tied and cut.

Step 2 The rectal stump is liberated carefully from any adhesions that may be present and the rectum is separated from the panetes. The mession in the ovarian suspensory ligaments is then continued backward alongside the rectum, an attempt being made to save as much as possible of the peritoneum for future use. The sigmoid vessels are cut close to the intestinal wall in order not to endanger the blood supply of the artificial anus. The ham orthough vessels are divided through their main di

visions as the middle and superior hemorrhoidals. The rectum and vagina are now lying free in the pelvis and attached only inferiorly to the perineum

Step 3 The vagina and rectum are separated from each other, clamped, divided, and removed

from the pelvis

Step 4 A drain and three gauze packs are placed in the vagina and the peritoneum is sewed carefully over the pelvic floor. If it is feared that the pelvis may become contaminated from the vagina, the vagina is sutured and gauze packing is placed in the pelvis to he removed later through a perineal incision. The addomen is closed tight without drainage.

The sauze and drain are removed on the fourth day and thereafter until the vagina cicatrizes in, the pelvis is douched. The heart is supported through out the postoperative period by strychine and digitals. On about the fourth day penstaliss is simulated by the exhibition of atropine combined

with small doses of morphine

PERINEAL OPERATION

The perineal operation is a combined colpohyster ectomy with resection of the rectum. The patient is placed in the lithotomy position, the operative region well indized and the anus closed with a pursesting suture. The procedure is divided into six steps.

Step r The incision is made according to the type of case Two incisions are described. The first, which is indicated when the neoplasm is in the ampulla and the anus is not involved is passed first through the two ischial tuberosities with a slight convexity toward the vaginal introitus. The dissection is then made upward in the space between the vagina and the anus for a distance of 2 or 3 cm and two longitudinal incisions slightly curved me dially are made from the posterior border of the transverse incision backward, one on either side of the anus, and brought together on the posterior sur face of the coccy w The ischiorectal fossie are thus opened up and the lateral surfaces of the rectum The inferior hæmorrhoidal vessels are cut and tied The coccyx is then resected and the pos terior surface of the rectum exposed. The hysterec tomy is then performed The inferior wall of the introitus and vagina is incised in the midline to the depth at which it was at first separated from the anus, and then, with a pair of scissors the vaginal wall is encircled, with care to keep away from the urethral orafice In this way the vagina is separated from the introitus The anterior and posterior walls of the vagina are grasped with several strong forceps so that traction may be exerted upon them during the rest of the hysterectomy

The second type of incision, which is indicated when the neoplasm is low down in the rectum and the anus is involved is made around the two ornices of the anus and vagina with care to keep away from the urethra. The vagina and anus are then isolated as described

28

Step 2 The anterior surface of the vagina is exposed This is facilitated by truction on the for The plane of cleavage between the bladder and vagina is followed upward to the vesicovaginal fold of peritoneum and the ureters are identified

Step 3 The vagina and rectum are then bherated in one piece from the lateral walls of the pelvis The vaginal artery the utenne artery at some dis tance from the uterus and the middle hamorrhoidal artery are ligated. Throughout this procedure the

ureter is kent in view

Step 4 The uterus is freed Up to this point the peritoneum has not been invaded. The peritoneum is now sectioned in front of the uterus and the fundus of the organ is seized with a pair of long forceps the bladder being held away from the field by a large retractor. The adness are then brought down and the ovarian suspensory ligaments and round ligament are cut and tied. The peritoneal incision is then extended to the lateral walls of the rectum and the uterus drawn out of the pelvis

Step 5 The invaginated colic stump is brought down and its vascular supply and peritoneum are sectioned and tied close to the wall until the rectum proper is reached the pelvic mesocolon is then divided and the superior hamorrhoidal vessels are cut and heated. The rectum uterus and vagina are now free and may be removed from the pelvis

Step 6 Teritonization is accomplished by bring ing the peritoneum from the superior surface of the bladder back to the two sheets coming from the side walls of the pelvis to either side of the old rectal bed A Mikulicz tampon is placed in the pelvis

No mention is made of a skin suture of any sort The gauge tempon is removed on the fourth day but the sac itself is allowed to remain until the ninth or tenth day. The casity may be washed out with judized water and a violorm pack may be The wound cicatrizes in from placed in it daily six to eight neeks

The combined methods are discussed only briefly as they are merely separate steps of the two tech niques described and are indicated when the surgeon experiences difficulty in the others. The authors insist that a knowledge of both techniques is neces sary for Lood work MICHAEL L MASON M.D.

LIVER GALL BLADDER PANCREAS AND SPLEEN

Hansen S Congenital Atresia of the Bilinry Tract with Special Reference to the Etiology of the Condition (Uber die angeborene Atresie der Gallenwege mit be onderer Beruecksichtigung der Vittol Die der Krankheit) Hosp Tid 1926 leit

While concenital total absence of the gall bladder is occasionally found at autopsy in cases in which its chinical diagnosis was impossible total atresia of the biliary tract means complete failure of liver function which can be tolerated for only a limited neriod of time. The condition has been found in

children who have lived for only a few days or at the most a few weeks and in whom the chief chini cal sugn was total absence of bile in the intestine The 100 cases reported in the literature were so diverse that it is difficult to recognize from them the nature or the etiology of the condition. The follow ing case is reported

A six weeks-old female child entered the chine with congenital interus and debility. The parents and a 3 year old sister were well. The child was born three weeks prematurely and at birth was dis tinctly ictene After its birth the saundice dimin ished temporarily but during the last few days it had increased. The child was breast fed, but had comited everything ingested in the last twenty four hours There were no convulsions The tempera ture at the time of the patient's admission was 16 c degrees C and in the evening rose to 18 degrees

The child appeared to be well pourished but was markedly acteric and coarse rales were heard over both lungs The abdomen was somewhat distended and the liver extended to the umbilious. There was no ascites. The urine was decreased in amount and contained biliary nigment, but no albumin or sugar One stool was clay colored and fatty and another very bloody. Death occurred on the following day The clinical diagnosis was acterus intumescentia

hepatis bronchitis and enteritis At autops, the body neighed 3 830 gm \o de formity or evidence of ites was found. All of the organs were bile tinged. There were no abnormal findings other than those in the liver and biliary tract. The liver was enormously enlarged and barder than normal Its surface was coarsely granulated with deep depressions and of brownish green color with blue and vellowish white areas. There was a well defined pershepatitis particularly below the diaphragm Cross section showed a severe cirrhosis with wide bands of fibrous tissue between which lav the nearly green in er parenchy ma in small irregular islands. The blood vessels were of normal caliber but nowhere was it possible even at the hilus to pass the smallest sound into the biliary passages

At the normal site of the gall bladder there was a furrow in the liver border but the gall bladder and biliary ducts were absent. In the duodenum there was a small papilla of later into which a sound could be passed for several centimeters but only the pancreatic duct could be sounded there was no common duct. In the hepatoduodenal ligament there was a cord like structure where the common duct is usually found

On microscopic examination of the liver the chief changes were discovered in the periportal tissues These consisted in a dense connective tissue forma tion and an increase in the biliary ducts The biliary passages were in general smaller than normal lined with cuboidal well preserved epithelium and par tally filled with bile Some of them were tortuous and others straight Many had numerous ramifica-

tions They were surrounded by a dense round cell infiltration with only a few leucocytes

These changes in the periportal tissues were well separated from the acini, no fibrous cords were found between the liver cells and the central vens. At the border between the acini and the connective tissue there was a row of round cells. Vascul'ir formations were increased. The liver cells were of normal size and shape, the nuclei were well stained, and the protoplasm was homogeneous and without vicuoles. The bile expillaries were filled with bile for quite a distance, but were not distended. Necross and elucocytic infiltration were not to be found. The liver capsule was thickened and in several places was connected with the periportal connective tissue.

Serial sections through the lesser omentum revealed in the region normally occupied by the common duct, a cylindrical structure consisting of a nucleus of cuboidal epithelial cells with hasal nucleus unounded by a dense connective tissue with a concentrically airanged lymphocytic infiltration. A lumen could not be made out. The pathologico anatomical diagnosis was cirrhosis of the liver and

atresia of the biliary tract

The cases of congenital atresa of the biliary tract reported in the literature are too diverse to be ar ranged in a table. They vary from simple closure of the hepatic duct or common duct alone with en largement shrinkage, or absence of the gall bladder to absence of all of the biliary ducts as in the author's case. Currhosis of the liver is a constant

finding

The chincal symptoms are often quite puzzling The interval from birth to the appearance of the icterus may range from one day to three weeks Late appearance of the icterus may be explained by enormous dilatation of the proximal part of the biliary passages with the retention of considerable quantities of bile in the dilated exertors channels A constant finding is the presence of hiliary pigment in the urine. In most cases the micronium is stained the acholic faces do not appear until shortly after birth

The viability of the infants varies with the se

verity of the anatomical changes

With regard to the etiology it is at first suggested that the cause is a defective anlage of the biliary tract, an embryological error However although in certain cases the condition is associated with other deformities, the embryological processes speak against such an explanation. An attempt to explain the condition in the same way as congenital intesti nal atresia is the assumption of its origin from obliteration due to upithelial proliferation with over growth by mesenchyme Investigations do not sup port this view According to the most generally accepted theory, the cause is an inflammatory proc ess in the fetus The constant presence of cirrhosis raises the question as to whether the obliteration i. primary and the cirrhosis is secondary, or whether cirrhosis associated with a cholangeitis is the p i mary condition which leads to descending oblitera tion as the result of descending inflammation of the biliary tract

In experiments on animals, ligation of the common duct showed that the production of a cirrhoss by stasis is very inconstant. Because of this fact and hecause cirrhosis is a constant finding in congential atresia of the biharv passages, it seems logical to conclude that the cirrhosis is due, not to bile stasis, but to an inflammatory process in the fetus which leads to obliteration of the bile passages secondarily

The type of infection is not known. In some cases syphilis may be responsible, but there are others in which this condition cannot be demon

strated

In the author's case the presence of rests of the common duct in the hepatoduodenal ligament in association with definite evidence of a subsided in flummation and scar tissue formation in the sur rounding regions indicated an inflammatory process in the fetus Luz (Z)

Chabrol Bénard, and Bariety A Comparative Study of the Bile Pigments Bile Saits and Cholesterol in a Case of Fistula of the Common Duct (Etude comparative des pigments des sels biliaires et de la cholestirine dans une eas de fistule du choledoque) Bill et mem Soe mêd d'hop de Par 1915 Mil 99

In the case of a patient with a bilary fistula the authors studied the excretion of bile salts, bile pig ments and cholesterol first by means of a T tube in the bile passages and later, after the external drainage had ceased and the tract had cicatrized in hy means of an Einhorn tube

They found that throughout the course of the experiment there was little variation in the amount of pigment, the lowest amount being 0.312 gm and

the highest 1 14 gm per liter

The amount of cholesterol was always lower than normal, averaging 0 32 gm as against a normal of 0 60 gm. This bears out their contention that with hypercholesteringmia due to gall stones the bile

cholesterol need not be increased

The secretion of bile salts showed an increase after the removal of the dramage tube. The bihary index 1e, the relation of the bile salts to the bile pigments was about 6 during the time of dramage whereas, normally, it is about 30 or 40. As soon as the normal flow had been established, it increased to 32. This finding, the authors point out, is in accord with Schill's law of bile secretion, viz, that the substances eliminated in the bile are again resorbed in the intestine to be returned to the liver. They be live it possible that the loss of salts by way of the tube diminished the amount available for hepatic secretion. Michigael L. Masoy, M. D.

Norris G W, and Farley, D L Abscess of the Liver *Ued Clin N 4m* 19 6, x 17

Abscess of the liver is comparatively rare. In most instances it is a secondary condition. The primary lesion may be quite obscure. Most liver abscesses fall into one of two groups, solitary

abscesses caused by entanceba histolytica and multiple abscesses secondary to a point of infection within the field of drainage of the portal vein. The authors review the history and autopsy findings in a case representative of each type.

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HARRY II TEVA ALD

Udaondo C B and Lanuri E Impregnation of the Aldney by Tetra Iodophenolphthalein in Two Cases of Critculous Cholecystitis (Impregnation renal por la tetrayodolenolitalema en dos ca os de colecistitis calculosa) treh argent de enferm d'apor algeri 1950 i 678

The authors have employed the intravenous in jection of sodium tetra iodophenolphthalesa in the tray diagnosis of more than 100 cases of gall bladder disease In two cases there was an unusual chmination of the die by way of the kidneys al though the test had been performed in the usual The clinical diagnosis in these cases was cholebthiasis and cholecystography was done to confirm the clinical findings. In the roentgeno grams which were made eight hours after the injection of the salt the gall bladder was visible and in addition an impregnation of the kidney on the same side was noted. The renal polyte and califes were demonstrated as clearly as in prelography authors offer no explanation for this unusual occur BREING R MEELER MD rence

Guareschi A Calculosis of the Dilated Cystic Duct (Calcolosi del dotto cistico ectasico) Ann ital di chir 1926 y 180

The patient whose case is reported in this article was a 30 star-old woman with the tyneal is mightness of gall stones. The gall bladder could not be painted. When deep pressure was made three was modurate pain at a point on the external marpin of the right rections muscle at the costal arch and muscle resistance was noted. Reentgen examination showed many judit stones but they were higher up and most toward the midline than the normal site of the call bladder.

and operation the gall bladder was found to be normal in form but somes hard decreased in a see. It contained a small amount of thud but no stones about 1 cm from what appeared to be the neck of the gall bladder the cystic duct was dilated to form a cyst about 2 cm long and cm in diameter Within the cyst there were eight; gall stones. The stones contained a large amount of calcium car bonate. The operation was followed by uneventful recovery.

The author believes that the abnormal sac full of the conditions was a dilatation of the cystic duct secondary to occusion probably caused by a stone impacted in the neck of the gall bladder. According to his theory the cystic duct acted as a substitute for the gall bladder after the occlusion of the latter and as the pattent had a calculous diathesis all of the conditions favoring the formation of stones were transferred to the new sea. Authory 6 Monosa M D

Zawadzki A Internal Drainage of the Bile Ducts by Means of a Tube Placed in the Ampulla of Viter (Le draina, e duodénal transvatéries par tube perdu dans la cholodocatomie) Bull el mêm Soc nat de chur 1926 li 130

To a cond the moon emences of external dramage after interventions on the bile passages (viz. loss of bile slowness of convalence the to persistence of the fastula excendary namework of the dusts and the necessity for frequency and the necessity for the state of the employed the method of Day in the author has employed the method of Day in the state of the employed the method of the state of the employed the method of the state of the terterus disappeared and the faces became recolored. The tube was climinated after periods varying from fourteen days to a year. No all effects were observed even when the evacuation of the tube was greatly delayed.

In two cases however a secondary operation was mecessary bremove the tube. In two of the author of fatal cases the drain was found displaced. In one it was doubled up in the common duct, and in the other was occupying a hepatic duct. Great care must be taken to dilate the ampulla completely and to be certain that the tube has passed into the duodenum.

Of the eight deaths in the author's twenty seven cases there was only one in which inadequate drain age could have been a contributory factor

ALBERT F DE GROAT MD

TEREST DE GROAT BID

MISCELLANEOUS
Stewart R L Retroperitonesi Cysts Edinburgh W J 1926 as xunu 432

Stewart defines true retroperatoneal costs as those which he in the retroperatoneal fatty tissues do not arise in an adult organ such as the pancreas or kid new and are attached to the surrounding structure by arrotar itsue alone.

From the standpoints of etiology and pathologics is occurring in the retroperitoneal tissue are very closely alked to those found in the mesentery of the small intestine or the mesocolon

The author suggests the following classification of retroperatoneal cysis

r Traumatic blood cysts arising from encap

sulated hæmatomata
2 Inflammatory tuberculous cysts arising from

glandular infection

A Tarasitic hydatid cysts usually secondary to

echanococcal disease of the liver

4 Neoplastic cy is arising from the degenera-

tion of malignant tumors

Commond cysts

6 Developmental cysts

Only developmental cysts conform to the definition of true retroperitoneal cysts

The most frequent pathological finding in cases of developmental cysts is a simple smooth surfaced unblocular cyst the wall of which is formed of fibrous tissue with or without a hung membrane of epithelium. The contained fluid is usually straw colored albuminous and of low specific gravity.

From the standpoint of etiology, developmental cysts may be classified as (a) lymphatic cysts (b) enterogenous cysts, (c) mesocolic cysts, and (d) urgenital cysts

Sequestrated remnants of the developing uro genital system, more particularly of the mesonephros or wolffian body, are believed by many authorities to be the most common source of retroperstoneal

In the diagnosis of these cases the history is of little value. The one constant letture is a cystic tumor which must be differentiated from such conditions as merenteric cyst pancreatic cyst, mucocele of the gall bladder, cold abscess ovarian cyst, and hydronephrosis.

Great and in the diagnoss is obtained from pyelo unterography. In the two cases reported in this article the cyst lifted up the ureter, displaced it medially, and flattened it out over its anteromedial surface with the production of an obstructive hydroureter and hydronephrosis. Experience has shown that ureteral obstruction is not caused by the growth of intraperitoneal tumors or cysts as such neoplasms evert pressure mainly against the expansile anterior abdominal will rather than against the ureter lying posteriorly.

A second diagnostic point is the appearance of the bismuth enema. In cases of tumor or cyst of renal origin on the right side the hepatic flexure is displaced downward. This does not occur in retropentioned cysts. Moreover, true retropentioneal cysts he lateral to the ascending colon The treatment of retroperitoneal cysts consists in enucleation of the cyst. If complete extirpation is impracticable, some form of marsupialization and drainage should be done

The author reports in detail two cases One was unique in that the examination of the cyst wall showed it to have the structure of a compound cystic ovarian adenoma Acob S Grove, M D

Blair Bell W. The Technique of Closure of the Laparotomy Incisions J. Obst. & Gynac Brit Emb. 1926, VXXIII 300

A large percentage of incisional hernize are due to imperfect suture of a laparotomy wound. The essen tal requirements, apart from asepsis of a perfect procedure in the closure of an operative opening in the abdomen are given by the author as follows.

- r The avoidance of apertures through the sutured peritoneum
- 2 The prevention of intra abdominal adhesions to the back of the scar
 - 3 The obliteration of all dead spaces
- 4 Overlapping closure of the aponeurosis with suitable material
- 5 Stay sutures that will keep the aponeurosis closed as it is sutured and which, when tied, will approximate the deeper part of the wound through out and will not cut the skin
- 6 Neat closure of the skin edges to secure a good cosmetic result

The method employed by Blair Bell is described in detail

SAMUEL KARN M D

GYNECOLOGY

UTERUS

Grégoire Béclere and Darbols Roentgen Exami nation of the Uterus and Adnexa Technique and Results (Lxamen radiologique de l'utérus et des anneves technique et résultats) J de chir 1216 vvii 153

The intra uterine injection of lipodol performed with the ordinary attention to asepus and under a pre-ure not exceeding 30 cm. Hg. is harmless. Even if the lipodol plasses into the peritoneal carity it is well tolerated. If a preliminary injection of geloscopolarma is made the injection of lipodol is practically paulies.

The procedure makes possible the roenteen exarumat on of the uterus and adners. If the impetion is made before the sereen and if important phales are recorded by means of frontal and profile contigenograms or better by stereoventienograms with the use of a Potter Bucly disphragm this method of roenteen examination permits the great

est exactness in enecological diagnosis. In the diagnosis of pelvic tumors it shows the exact site form and size of the uterine cavity and whether or not a tumor is in the uterins. If the tubes are perimeable it shows that the condition is not a tumor of the tube. It is of value especially in the difficult diagnosis between fibromata and

co is Incases of metrorrhagia it may reveal the presence of an intra uterine tumor and show exactly where an exploratory incision should be made In the diagno is of permeability of the tubes the injection of lipiodol under a known pressure is superior to in utilitation of the tubes because it shows the permeability of each tube separately and if a tube is

not permeable the ite of the obstruction

MOREY G. MORGAN M.D.

Cotte G and Bertrand P Roentgen Examination of the Uterus and Tubes After the Injection of Lipodel in Sterlitz and Dyamourheas (Sur Lepheration radiologique de l'uterus et des trompes après injection de lipodel dans la térnité et la l'i ménorifice! Bull Soc d'éa et de grace de Par 1926 ty 363.

The nine tion of lipsoids is very much supernor to the insuffician of air for the rootting a sammation of the uterus and tables because if any reflux occurs through the cervax it can be seen which is not the case with air and because it permits localization of the lesson. Several illustrative cases are cited in which the ite of an occlusion of the tube was localized by means of lipsoid and outcome either by salpringostomy or the implantation of the tube in the uterus. Only a few pregnances have occurred on the uterus.

after such operations but the fact that they do occur is sufficient reason for persisting in the use of the method

It is frequently possible lise by means of Jip old injection to discover an organic cause, for dysmenor there in cases in which no such cause can be found on physical examination. A girl of at years without any sexual history suffered o severely at each mensional period that she was obliged to stay in bed for two days. Lipsold examination showed the klit tube distended and imperimeable. Operation to reclied a hidrosalpura on the left side with sele ocysic ovanits. Unitateral castration on the left side was followed by recovery.

In two other cases of dismenorthers in which the examination showed piosis of the uterus with prolapse of the tubes into the pouch of Douglas fiva

tion of the uterus was done

It has been objected that the examination with lipsoid shows only the condition of the tubes while it is the condition of the ovaries that is important Honeser if knions of the tube are shown, operation is indicated and operation will show any lesions of the ovary that are present

The authors have performed about fifty such exammations and in none of the cases have they noted the slightest ill effect. The examination should be performed with the sirricest precautions for asepsiand the patient should star in bed for several hour afternard. The authors believe that the danger of infecting the peritoneum with bacteris from the tubes is more theoretical than real. They have even the slightlest has of temperature as have made the examination and return which they have made the examination.

AUDREY G MORGLE M D

Murray H L. Myomectomy: A Report of Sixty Cases of Enucleation of Fibroids from the Non Graid Uterus. J. Obst. E. Gynac. Brit. Emp. 19. b

The author has done sixty operations for the re moval of utenine hibroids by the abdominal route with preservation of the uterus. The fibroids in all cases were lying wholly or partly within the uteriac

Murray has found that uters apparently mullated by the enucleation of multiple fibroids have a power of recuperation and involution incredible to those who have not tested it. Contra indications to the conservative operation are severe anima; the cases of women also have passed the child bearing aper unless the operation can be very simple), cases of multiple fibroids high cannot be emulciated—and cases of fibroids associated with serious tubal or outside discussions. While degeneration should be not considered a contra indication, it may cause some technical difficults due to the softness of the tumor and the state of the capsule. The author has never seen any complication caused by the escape of fluid from areas of hour factor into the pertoneal cavity.

Before the enucleation, a preliminary incision should be made very definitely into each fibroid particularly the larger ones, as there is often a thin zone of condensed musculature around a fibroid and this may easily be mistaken for its periphery Hæmorthage should cause no trouble as the vascular bundles in the capsule are resistant and can easily be brought so near the surface on the finger that forceps can be applied to them before they are severed. The cavity should be closed in layers with a continuous or mattress surface of plan actignt in troduced with a round bodied needle. When sub mucous fibroids are suspected there should be no hesitancy in opening the uterine cavity.

A large percentage of the women who were oper ated upon bave since given birth to children normally ALBERT W. HOLMAN. M.D.

Dalsgaard Nielsen T One Hundred and Sixty Four Cases of Cancer of the Uterus (164 Faelle von Gebaermutterkrebs) Hosh Tid 1926 luy 64

The author reports upon 164 cases of carcinoma of the uterus which were treated in the period from 1913 to 19 3 Of thirty women subjected to the Werthem operation four had a carcinoma of the body of the uterus Of the latter, three remained free from symptoms for eleven years One patient died soon after the operation

Of twenty six women with carcinoma of the cer vix, seven (%) per cent) remained free from symp toms for eleven years, ten (30 per cent) died of recurrence and nine (35 per cent) died soon after

the operation

Of ninety four women with carcinoma of the cervix who were treated by irradiation (radium and the roentgen rays), to per cent remained free from sympions up to three and a quarter years 55 per cent were benefited up to three and a ball years and about 30 per cent were not benefited 97 twenty one whose condition was operable 29 per cent remained free from symptoms up to two and a hall years, 62 per cent were benefited up to three and a hall years and about 10 per cent were not benefited of 10 seventy three whose condition was inoperable 12 per cent remained free from symptoms up to three and a quarter years about 52 per cent were benefited up to two and a hall years and about 37 per cent were benefited up to two and a hall years and about 37 per cent were not benefited.

In inoperable cases irradiation treatment is a great advance. By this treatment it is nearly always possible to stop the hemorrhage and discharge and frequently the patient's condition is so much improved that she is able to return to ber work for a considerable length of time. In some cases a cure may be obtained fradiation therapy is indicated also in operable carrinoma of the cervix as its re-

sults are as good as those of operation and its mor

In carcinoma of the body of the uterus the results of operation are very good and irradiation is indicated only when operation seems inadvisable on account of the general condition Salnoger (G)

Holl E A Report on the Question of the Relation ship Between the Blood Picture and the Prognosis of Irridiated Carcinomr of the Uterus (Betrag zur Frage des Zusammenhang, zwischen Bluthid und Prognose beim bestrahlten Gebaermut terkrebs) Arch f Gynack 1936 cvvvii, 708

This article is based upon forty three cases of carcinoma of the coveral portion of the uterus, six cases of carcinoma of the body of the uterus, and two cases of carcinoma of the value. The irradia tion was performed according to the Settz Wintz method. The blood picture was examined usually before and then from eight to eleven days after both irradiations. A favorable clinical course following the primary irradiation was found to be associated with a relative and a small absolute increase in the lymphocytes value. Tollowing a fall of short dura tion immediately after the irradiation the lymphocytes in such cases increased again rapidly, their number rising beyond the normal number.

A low hymphocyte count before the irradiation, a further fall or a delayed or only slight rise after the primary irradiation was in almost every instance a sign of very poor reparative powers and an un favorable prognosis. In the cases in which the lymphocyte value has not been recovered after six weeks an unfavorable outcome was foreseen

The author always found, as did Bock, that following irradiation the cases which were to end favorably could be recognized as such from the erythrocyte picture as well as the lympbocyte picture. This contradiction of Naegelis theory is explained by the fact that Naegeli based his observations upon cases that were not irradiated

Observations in five cases with a favorable clinical course showed that subsequent flaring up of a car cinoma previously regarded as cured cannot be predicted from the blood picture. Unlike other investigators the author was unable to find that an eosinophila indicated a tendency toward cure. The difference between the time of the increase in the lymphocytes observed by him and that reported by Bock is attributed solely to differences in the stradus too technique.

ADNEXAL AND PERIUTERINE CONDITIONS

Bacialli L Examination for Koch's Becilius in the Blood in Tuberculous Affections of the Fernale Genitalia (La ricerca del bacillo di Koch nel sangue delle affezion tubercolari genitali ferminili) Rivital di gine 1926 i v 339

There is considerable discrepancy in the reports of different authors in regard to the discovery of

tubercle bacilli in the blood in tuberculosis of the female gentials. In 1914, Bacialli began a series of examinations in which he stained blood smears by the Stauebli Schuitter method. He found acid fast bacilli in all of his cases of tuberculosis of the female genitalia. The var provented constitution of the female genitalia. The var provented constitution on time his methods were seriously enticated by De Arnicia he required the experiments by another method two jears ago. He cultivated the blood on lettagnams medium of milk portion tarch peptone egg glycerin and malachite green and made incoulations into guinea pigs. The blood was taken from severe cases of tuberculosis of the female genitions reversed to the service of the female genition.

Bacalli thinks the question is not yet absolutely settled and that the invisigation should be continued with various techniques since the difference in the results of experiments may be due to technical errors Audies of Mosci, M.D.

Rubin I C Sterility Associated with Habitual Amenorrhoea Relieved by \ Ray Therapy in J Obst & Gines 1926 th 16

Rubin states that habitual amenorrhera is associated with sterility in about 5 per cent of the cases and pregnancy occurs in about 5 5 per cent of cases that are untreated

Of twelve women with this condition whom be treated with mild doses of \(\mathbb{r}\) ay, nine [75 per cent) subsequently became pregnant Only one of the latter aborted The rest were delivered at term of normal children The seven delivered by Rubin cave by the our males and one lemale

The Nray irradiation of the ovaries resulted in restoration of the menses in eleven of the twelve cases of amenorrhem. Nray irradiation of the hypophyseal aria and of the through appears to give additional benefit. Hispophyseal irradiation Nas given in the cases of two of the women who became pregnant and two of those who did not. One of the women who became pregnant also received thyroid irradiation.

Insufficient of the tubes through the uterus and endocrine therapy increase the therapeutic action of the \tag{rays} in amenorrhoca with sterility

As the ovaries were found to be definitely enlarged before the treatment in eight of the nune cases in which the sternlity was treated successfully cardinated and the state of the cardinate map prove of aid in the selection of the cases sun labe for ovarian stimulation. When no ovarian en largement is found irradiation of the hypophysical area of the thyroid may be more advisable than irradiation of the ovaries and should certainly be cited it.

Spencer II R Two Cases of Adenofibroms of the Ovary Pro R v Sec Med Load 1926 ur Sect Obst & Gynac 105

The cases of ...denofibroma of the ovar; reported in this article are of interest particularly because of

the rarity of this type of tumor. Only three other cases have been reported. These also were reported by the author.

Spencer calls attention to the association of the adendiforms with multilocular ovarian systoma this occurring in one of the two cases in the same ovary and in the other in the opposite ovary. Of the five cases reported to date cystic disease of the ovary has found in four. Macry P. Deves M.D.

Delannoy E and Breton A A Case of Ovarian Epithelioma of Wolffian Origin (Un cas dépi thétiona wolffien de l'ovaire) Bull Soc d'obst et de gyste de Por 1926 xv 259

A woman 55 years of age who gave a history of abortion in the second month of pregnancy at the age of 28 years and who had pas of the menopau e at the age of 50 sought treatment for metrorhagia which began five months belo e she consulted the authors. The bleedin, was proluce but not punful and was not alleviated by rest. Complaint was made also of constipation and a sense of weight in the lower abdomen. The patient had lost 8 kilos in weight and was very angument.

The general examination was negative Vaginal examination revealed a smooth very hard regularly rounded, and slightly movable mass the ize of a firt in the right forms and cul de sic. The cervice was rather small but normal and the body of the

uterus was of normal size and mobile

As the mas was believed to be maligant a total histerectomy with removal of the adhexa was done. The tumor was slightly adherent in its posterior portion but thirt was complete ab ence of ascites Apparently there were no meta tases.

Lathological examination showed the growth to be a cylindrical carcinoma or a cylindrical epithe

homa of the ovary

The author believes the tumor was derived from wolffian rests Salvatore of Palla MD

MISCELLANEOUS

Schroeder R Backaches (Ueber Ruechenschmer zen) Zentraibi f Gynack 19 5 1 047

Schweder first reviews the various causes of the complex sy aughton of becknecke Among the guntal causes is passive mobile displacement of the uterus in the form of simple retroflexion decensus, or prolapse Deep backache is often due to a chronic legaments which latter can be recognized from the pain caused by traction on the portion and is due to wounds and erosions of the cervia.

Among the extragential causes the author men tions affections of the kidney pelvis and the ureter A most important cause is strain on the love the domein estuling from relaxation of the abdominal wall with prosss of the abdominal viscees. During respiration in such crisis the upper part of the abdomein drawn in while the lower portion is pushed out. The vagina is then subjected to a positive pression. sure downward, whereas in the healthy woman in the standing position the pressure in the vagina is negative

In the treatment of such anomalies associated with easy fatigue of the muscles the patient must be given a support to lift the protruding lower abdomen. In cases of true pendulous abdomen, a firm binder is necessary. Gradually increased evereises are indicated to strengthen the abdominal and back muscles important preventives are modern sports and bodily exercise. The author recommends bending of the back and knees, raising the body to the sitting position from the recumbent position and the raising of both legs. Other essentials in the prevention of the condition are proper clothing and good care during the puerperium.

Newell, Q U The Use of Iodinized Oil (Iodinin) as a Diagnostic Aid in Gynecology 4m J. Obst & Gynec 1926 xii 189

In cases of sterility in which the tubes are obstructed the author has found injections of indinized oil of value in determining the character and loca tion of the obstruction and whether the case is suitable for operation

When several masses are palpable within the pelvis, X ray study following such injections will clearly differentiate the uterus from the other masses

In cases in which the pelvis is blocked by one large mass, the use of iodinized oil will reveal whether the tumor has its origin in the overy or the uterus, and when a foreign body is present it will show whether the foreign body is within or outside of the uterine cavity.

The method is of value also in the differentiation of chronic appendictis from salpingitis on the right side and of tuberculous salpingitis from common salpingitis

It reveals the size of the uterus and shows whether the cavity is encroached upon by a mass such as a fibromyoma or a carcinoma of the fundus

In conclusion, the author states that injections of iodinized oil, carefully and skillfully done, are not likely to cause any harm

E L CORNELL, M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Hirst J C 21 and Long C F The Early Dage nosis of Pregnancy by Methods of Precision Further Observations on Sugar Tolerance Tests Final Report im J W Sc 1926 clru 846

The authors review the various laborators meth ods for the early diagnosis of pregnancy. They regard all of them as unreliable except the method of Frank and Nothmann which they have modified In 1023 they made a preliminary report on the use of the latter method in a series of thirty nine cases

with accuracy of diagnosis in as per cent Experimental work in this field has been dome nated by two ideas (1) that pregnancy causes the appearance of a specific protein in the blood and (a) that nomen in the early months of pregnancy are prope to transient glycosuma and this can be

induced by the feeding of carbohydrate The tests based on the first theory are the Ab derhalden reaction. Erede's anaphylactic reaction Costa's novocain formalin reaction Dienst's reac tion and the red blood corpuscie sedimentation test

Tho e based on the second theory are the Rou bitschel, adrenalin test the phlonzin test and the alimentary glycosuma test of I rank and Nothmann

The Frank and Sothmann test is based on the ob ervation that after the feeding of 100 gm of glucose on a fasting stomach in the case of a tireg nant woman gly cosuma without hypergly crimia will appear within the course of two hours. This is noted with constance only during the first three months of pregnancy and immediately disappears following the separation of the placenta from the utenne wall or the death of the fetus

The simplified technique for the Frank and Noth mann test which is used by the authors is as follows I The patient is given an average supper the

meht previous to the test

2 On the day of the test the first morning speci ment of urine is collected. This must be negative for sugar by Febling's qualitative test before the gly cosuma test is begun

3 Breakfast on the day of the test is omitted 4 The calculated dose of table sugar is given dissolved in two tumblers of water flavored with half a lemon each. The dose is computed by using 75 gm of table sugar for every 10 lbs of body weight except that the maximum total must not exceed 150 gm

5 Voluntarily voided specimens of urine are col lected one hour and two hours after the administra tion of the dose and in the cases of patients going to operation the same day or under any nervous strain a third hour specimen is also collected

These are tested for sugar by Fehling s qualitative

If either of the hourly specimens of urine shows a definite reduction of the I chling's solution such as would be termed positive for sugar in a routine analysis the test is considered positive

Routine blood sugar determinations are not made because the work done by the authors in 1923 showed that this type of glycosuria is associated

with normal blood sugar values

Of 150 patients subjected to the test eighty-eight were pregnant Of those who were pregnant eighty three (94 per cent) reacted positively. Of the non pregnant group fifty seven (9 per cent) reacted Despite the percentage of error the authors believe that the procedure described is the most accurate laboratory method of diagnosing early pregnancy before the guntcological signs appear

latients with endocrine obesity exophthalmic goster diabetes or severe hepatic disturbances are not amenable to the test because their carbohydrate metabolism is already abnormal

CHARLES ! DLBois M D

Causs C J A Probable Sign of Programmy (Leber ein wahrscheinliches Schwanger chaftszeichen) Zen tra'ul f Gynack 1926 l 875

For many years the author has noted that in the first month of pregnancy the cervit of the uterus has an unusual mobility as compared with the body of the uterus at being po sible to move it laterally and forward and backward without moving the corpus. In making this test care must be taken not to confuse cases of early pregnancy with cases in which the mucosa of the portio is very thick and movable

The author is aware that this peculiar mobility is due to the changes of which Hegar's asthenic compre sibility is another sign. The anatomical bases of the mobility are discussed in detail

In the 1sthmic portion of the human uterus there is a restudo joint for which there are numerous pos sible cause Moreover it is evident from the ar rangement of the uterine musculature that the isthmus is a relatively weak area which is particu larly susceptible to the action of extra uterine forces such as the pressure of the bladder and intestines and the intra abdominal pressure. As the result of certain changes this weakness is considerably in

Of 258 cases in which the author made an exami nation for isthmic mobility he found it absent in only two Whether this sign becomes more distinct with advancing pregnancy. Gauss is as yet unable to state In carly pregnancy however the new Ston is superior to Hegar s sign but since like the latter

it is sometimes found in the non-gravid uterus, it can be regarded only as a probable sign of pregnancy

Puppel E Contributions on the Clinical Aspects of Puelitis (Beitraege zur Klinik der Pvelitis) Monatsschr f Geburtsh u Gynaek 10 6 lycu 224

In twenty five of fifty four cases of pyelitis the condition was found on the right side and in ten on the left side. In twelve it was bilateral. This coin cides with the usual findings. There were seventeen acute cases with fever occurring with or without pregnancy and thirty seven chronic cases usually without fever but with backache p un in the region of the kidness cloudy urine and dribbling of urine

Although Stoeckel does not admit the possibility of infection of the urinary passages from the vagina, the most common local cause was severe leucorrhora Pediatricians recognize vulvitis in small girls as the chief cause for the first appearance of pyelitis Other causes are ascending gonorrheea inflamma tions in the true pelvis including chronic appendi citis, vaginal operations, and, in rare instances, defloration and colds

Accordingly the author distinguishes a hæmato. enous, a stasis (in constipation), a lymphogenous and an ascending pyelitis The duration and course

of the condition vary widely

The acute attack may be overcome by chincal treatment in two or three weeks, but this does not necessarily mean a permanent cure. Ureteral cathe terization is indispensable for both diagnosis and therapeusis It is frequently followed by a prompt fall in the temperature Other measures to be con sidered are irrigation of the bladder with silver nitrate and intravenous injections of jodonascin The use of protroom in cases with non acid urine is without value. In none of the cases reviewed was it necessary to interrupt the pregnancy on account of the pychtis

The development of severe gonorrhoal and post operative pychtis is explained by penetration of the ureter due to the presence of infection in the bladder The symptoms vary from attacks of high fever with severe headache, vomiting chills, and at times se vere pain at McBurney's point to simple bacteriuma

Acute cases are seldom diagnosed erroneously The urmary findings prevent confusion of the condition with appendicitis or puerperal fever

BRANDESS (G)

Lazard E M Irwin J C and Vruwink J The Intravenous Magnesium Sulphate Treatment of Eclampsia Am J Obst & Ginec 1926 vii 104

This report is based upon cases of toxemia of pregnancy which resulted in convulsions and cases in which treatment was directed toward the preven tion of convulsions

There were forty five cases of toweria in which magnesium sulphate was given intravenously in ad dition to the usual pre eclampsia treatment in an attempt to prevent the occurrence of eclampsia In

nine, the first injection was given during labor, and in three after delivery In thirty three, the treatment was begun from one day to four weeks before delivery Of six patients who developed convulsions, four had had only one injection, one had had four injections and one had had three injections Thirty had a spontaneous delivery, three, an induced labor five, an assisted labor (forceps or version), and seven, a casarean section There were thirty four hving babies, six premature stillbirths, and three full term stillbirths The death of one of the full term infants was due to premature separation of the placenta

There were 103 patients with eclampsia with one or more convulsions. In fifty, the eclampsia devel oped before labor in twenty five during labor, and in twenty eight after labor. The total number of deaths from all causes was fourteen, a gross mortal ity of 126 per cent. One patient recovered from the eclamosia but died three weeks later from sensis One died of surgical shock following section six days after recovery from eclampsia These two cases should be included among the recoveries from eclamosia One patient was moribund when she first came under observation, and in two the condition was proved by sutopsy to be a nephritic gramma

without any typical eclamptic changes

There were forty seven spontaneous labors, ten forceps extractions three versions, one breech ex traction eight bag inductions, and eight casarean

The authors draw the following conclusions

r The intravenous administration of magnesium sulphate in sufficient dosage will prevent the devel opment of convulsions and will control them after their onset

2 Under intravenous magnesium sulphate treat ment the corrected mortality in a series of cases of eclampsia was o per cent

3 The mortality is highest in the true nephritic

type 4 Surgical interference in eclampsia should be limited to assisting labor (in the second stage) on definite obstetrical indications

5 Cesarean section is contra indicated in eclamp sia except in the presence of absolute obstetrical indications E L CORNELL M D

Schultze Rhonhof F Population Statistics with Regard to Pulmonary Tuberculosis in Preg nancy (Bevoelkerungsstatistisches zur Lungentu berkulose in der Schwangerschaft) Zentralbl f Gynack 19 6 1 779

In the Menge clinic it is not regarded as cert iin that pulmonary tuberculosis always necessitates in terruption of the pregnancy To date, the superior ity of such active treatment has not been proved

As nearly all clinical statistical reports are based on small numbers of cases the author studied the statistics from the statistical departments of Baden. Prussia and Bavaria for the years 1905 to 1922 with regard to the total mortality, the mortality from 38

tuberculosis of all types and the mortality of not monary tuberculoss according to age and sex The mortality from pulmonary tuberculosis among

females showed a definite increase in the third decade of life but the corresponding mortality among males showed a similar rise. On the other hand in the age period from birth to 15 years of age the mortality from pulmonary tuberculosis was higher among females than that among males

With the decrease in the number of births in the period from 1905 to 1913 there accurred also a de crease in the mortality of pulmonary tuberculosis among females but this decrease occurred much more slowly than the decrease in the birth rate and a similar decrease was noted in the mortality among males. On the other hand in the period from rota to 1020 the mortality from tuberculosis among both males and females was apposite to the birth curve

The author believes that these findings greatly nealen the hitherto accepted theory concerning tuberculo is in pregnancy. I ollowing a review of the findings of Lankon and Luepferle whose fig ures he does not regard as of much value he con cludes that in the majority of cases pregnancy labor and the puerperium have no effect upon an already existing pulmonary tuberculosis

Bock (6)

Auernherger I The Irobjem of Injury to the Fetus by Syphilis (Zum Problem der luischen Truchtschae itming) / ntraibl f Guna & 1926 1

For the recognition of all concemtally syphilities children ar immediate \ ray examination of the extremities of the child is necessary in addition to examination of the retroplicental blood and blood from the umbilical cord. When syphilis is even slightly suggested by the history of the findings in the mother or child an \ ray examination should be made again after eight neeks and if this proves negative a Wa sermann test should be made of the mother and child 'a ray examination of the child's skeleton is absolutely neces ary since bony changes are not intrequently the only signs of syphilis these include periostitis ossificans as well as osteochen dritts The absence of such bony changes however does not definitely exclude congenital syphilis

Of 145 children in whom syphilis was suspected but who at first showed no evidence of any illness the author was able to keep thirty one under obser vation for several years after their birth. Of the latter six subsequently showed evidence of active s) philis and in eleven signs of latent syphilis de veloped six having a positive Wassermann reaction and five showing periostitis ossificans. In fourteen no sign of syphibs could be found throughout the period of observation. Latent syphilis in children frequently escapes recognition because the child often appears entirely normal and therefore no sub sequent examinations are made

With regard to previous treatment of the mother the following conclusions are drawn

At least every other child of a syphilitic noman

who is not treated for syphilis is born dead

Of the children of 100 syphilitic women who were not treated for syphilis five will be healthy a d nmets five will be syphilitic

Of the children of 100 syphilitic women treated only before pregnancy from seven to twenty two will be healths

Of the children of 100 syphilitic women treated during pregnancy, from seven to twenty two will be syphilitic

Every pregnant syphilitic noman must be treated regardless of whether the syphilis is active or latent and regardless of whether she has been treated pre viously A careful course of treatment is advisable even when the Wassermann test has become nega HINNES (G)

Kraul L and Bodnar L The Effect of Anti Syphilis Treatment upon the Fetus (Ucber die Uirkung der antiluetischen Behanilung auf den Tetus) Irch f Gynack 1026 crryin 218

By chemical methods the Marsh mirror test for atsense and the micro analytical luminescence test of Donan for bismuth the authors were able to establish the presence of these elements in the blood and amniotic fluid of fetuses whose mothers had been given anti syphilis treatment during pregnancy

They therefore concluded that anti syphilis treat ment of pregnant nomen serves not only to protect the fetus against infection but to combat already established fetal aphilis. At no period during preg nancy is it too late to begin such treatment. The transmission of both medicaments to the fetus is believed to be brought about by the placenta

(O) REAST!

Maften E Antisyphilis Trentment of Pregnant Women and the I rophylactic Care of the New born (Ueber die antisyphilitisch Behandlung der Grasiden un I die Praeventivkur der Neugebirenen) Irch f Ginuck 1926 CTTILL 3,1

The author studied the diagnosis and treatment of syphiks in pregnant nomen at the you Poham chaic In this article he describes his on a method of treatment and emphasizes the importance of in tensive therapy begun as early as possible. Even when pregnancy is advanced such treatment may be of con iderable benefit klaften at first used mercury and salvatsan but since the introduction of bismuth in the treatment of syphilis has em ployed a combination of bismuth and salvarsan In the use of neosalvarsan he begins with an injection of o 15 gm and then increases to 0 3 gm giving this dose to ice a neck until a total of from 4 2 to 5 gm is reached. Severe untoward effects hav never been observed fallor ing this treatment

Of the bismuth preparations he uses chiefly bis mogenul giving it intragluteally in doses of from I to 115 ccm until a total of 30 ccm has been administered Particular care is necessary only in the presence of severe kidney damage and signs of cardiac decompensation due to organic heart or vascular disease

Prophylactic treatment of the newhorn is advisa hie when the treatment of the mother has been insufficient. This should be begun immediately after birth, before there are any clinical signs of syphilis. The treatment consists in the administration of I/100 gm of protojoduratum hydrargyri in milk three times a day and a deep intragluteal injection of o 1 gm of neosalvar.an each week, continued for theleve weeks.

Gill J J Report of a Case of Chorlocarcinoma of the Uterus Complicating Pregnancy Am J Obst & Gynec 1926 vii *03

The patient whose case is reported hy Gill was a woman 21 years of age who was married at the age of 18 years and had had two healthy children and no miscarriages. Her last regular menistruation oc curred September 15, 1924 at which time she was in good health and weighed 155 libs. On December 15 she had a bloody vaginal discharge. This recurred at frequent intervals for sixty days, on two occasions there was a profuse guish of hlood. Other symptoms complianted of at that time were a thick mucous leucorrhea, severe pelvic pains, extreme loss of strength and weight, dyspnœa, fainting srells, and hlurring of the vision.

On February 15 1025, when the patient entered the hospital, she weighed 98 lbs the red cell count was 3 600 000 the white cell count 8 900, the hamoglohin equaled 75 per cent, the urine was negative except for some pus cells, the temperature roo degrees F and the ahdomen very tender hut

not distended

An exploratory operation performed February 16 revealed chrome; nflammation of the appendix and a large, soft, hoggy uterus completely studded over with tubercles varying in size from that of a pinhead to that of a pea. The tubercles add not penetrate to the peritoneum. The appendix and the unopened uterus containing a five months fetus were removed.

Examination of the uterus hy Fishhack showed the soft infiltrating nodules in the musculature to be

choriocarcinoma

Deep roentgen ray therapy was administered by Alden, and the patient left the hospital March 21, 1925 very greatly improved in health. One year after the operation she weighed 150 lbs was able to work, and stated that she felt stronger and hetter than ever before E. L. CORYELL M. D.

LABOR AND ITS COMPLICATIONS

Asterlades T and Mocquot P Encysted Peritonitis Following Rupture of the Uterus During Labor Delayed Laparotomy Cure (Péritomie enhysitée apres rupture de luterus au cours de laccouchement laparotomie tardive guérison) Bull et mêm See na de chir 19 6 ln 120

A woman was delivered of a normal infant without incident except for a violent lancinating pain at the

end of labor and a rather severe postpartum hemorrhage. The hemorrhage was arrested by packing. On the second day the patient developed chills and fever which continued for several days. The uterus rapidly returned to its normal size but the abdomen hecame progressively distended by a mass extending to within three fingerbreadths of the xiphoid process. On binanual examination this mass could be separated from the uterus.

Operation revealed an abscess which entirely filled the pelvis. The uterus was of normal volume and the adners were normal. The presence of the abscess was explained by a stellate laceration of the posterior wall of the uterus of sufficient size to admit a finger tip. The abscess was opened and a Mikulicz drain introduced. Uneventful recovery resulted.

Because of the history of volent pain at the end of labor and the postpartum hamorrhage, the author concludes that this was a case of spontaneous rupture of the uterus followed by a localized peritoritis ALBERT F DE GROAT M D

McCann F J A Contribution to the Technique of Cæsarean Section Proc Roy Soc Med, Lond 19 6 xix Sect Obst & Gynæc 113

In the technique for casarean section advocated by McCann the ahdominal incision varies in length according to the size of the uterus. It is made sufficiently long for easy eventration of the uterus. Its position is governed by the position of the uterus fundus. The greater part of the incision is above the umbilities.

When the abdomen has been opened, the uterus is immediately eventrated. The incision is then temporarily closed with volsellæ or kocher forceps and covered with a towel wring out in hot saline.

solution

Another hot salne towel is wrapped around the eventrated uterus, the fundus hemg left exposed, and clamped by forceps along the posterior uterine wall. The lower edge of the towel is spread on the cloths protecting the skin of the ahdomen to prevent the entrance into the ahdomunal cavity of any fluid escaping from the uterine cavity. Though liquor amin is considered an aseptic fluid, it may be irritating and the peritoneal cavity should not be contaminated by it.

When these precautions are taken and the work is done rapidly eventration does not increase the shock resulting from the operation as is generally

supposed

A sagitfal fundal incision 6 or 7 in long is then made through the fundus and prolonged 1 in farther downward anteriorly than posteriorly. To assure a messal position of this incision the ends of the fallopian tubes are used as guides. Care is taken to avoid puncturing the membranes or tearing the incision.

After the fundal incision has been made, the membranes bulge into the antenor half and the placenta is exposed through the posterior half. The

hand is then inserted and the placenta rapidly sen arried from the uterine wall

While the assistant draws the sides of the uterine incision apart the operator compresses the lower part of the uterus through the tonel and gently milks the uterine wall from below upward thereby shelling out the placenty and the fetus in the unopened bag of membranes. The membranes are then suptured and the child is liberated. After the child breathes the cord is clamped and cut

In septic cases in which the membranes have ruptured the uterus is thoroughly irrigated. As an alternative to sacrificing the uterus continuous irri gation may be maintained through a uteroparietal

fistula

40

Slowly absorbed or non absorbable sutures such as silkworm gut and linen thread are used for the uterine nall and citigut is employed for apposition sutures

When the uterine mersion i carefully sutured it will stand the strain of even repeated pregnancies MICHES I CRAPS MD

Wille F C The Course of Delivery After Casarean Section (Leber den Geburtsverlauf nach Kas er schmitt) Dui h mid II hus hr 19 6 in 369

Extension of the indications for crearean section is recommended because of the favorable results of this operation. To determine whether it is justified when the scar of a previous exercan section is present the author reviewed the material from the Franz chair from October 1 1910 to April 1 1925 In this period abdominal exsarein section was per formed in 35, (t per cent) of 28 917 cases The primary mortality was 1 4 per cent | there were 118 subsequent pregnancies without complications in any case

No relationship could be determined between subsequent abortions and the scar of the operation There were forty nine cases in which casarean section was performed twice mineteen cases in which it was done three times and one case in which it

was done four times

In thirty five cases delivery occurred by the natu ral route in mucteen of these it occurred spontage ously and in sixteen with artificial aid. There were two spontaneous and two traumatic ruptures in cases with a narrow pelvic inlet but only one death

in these cases

Overstretching of the uterus and repeated and frequent pregnancies are not associated with much danger of rupture but the author ascribes some im portance to the insertion of the placenta in the region of the scar The cause of rupture is not the narticular conditions of the new pregnancy but the complications of the old casarean section There fore the author emphasizes the importance of the intrancritoneal cervical section with smooth margins at the line of the incision exact suturing and heat ing by primary union-in short he urges an asentic and technically faultless operation NEUGARTEN (G)

PHERPERIUM AND ITS COMPLICATIONS

Levy Solal Ravina Brindeau Devé and Delestre A Metrorrhagic Form of Incrperal Infection (Forme mitrorragique de l'infection puerpérale) Bull Soe d'obst et de gyn c de Par 1926 xv 200

LEVY SOLAL and RAVIVA report five cases of secondary postpartum hemorrhage which they regard a analogous to econdary hemorrhages of infected surgical stumps many cases of which were seen in the recent war Of the five patients one died of sentic infection

These cales are imilar to thole reported by Conveloure in the sense that the profuse bleeding seemed to be due to a streptococcus infection of the uterus independent of placental retention. Cul-

tures of the blood were at first negative

The treatment con isted in the introduction into the uterus of tampons saturated with strentococcus erum The authors believe that such dressings may act both a in a mostatic and a vaccine

Lostmortem examination of the uterus in the fatal case howed inhitration of the uterine will by inflammatory elements inter titial hemorrhages and an extremely intense obliterating endartentis

Levs Solal and Rayana bave formulated the fol-

loning rules for treatment

I Abstain from curettage as this procedure may disseminate the infection 2 After simple evacuation of any blood clots

from the uterine cavity introduce tampons dipped in a filtrate of streptococcus culture

3 If improvement is noted if the hamorrhage stops and if the temperature decreases continue the dres may

4 If improvement is not noted after the second or third dre sing perform a vaginal hy terectomy Similar ca es are reported by BRINDERL DEVE SALVATORE DI I ALMA MID and Drillstar

Schneider G II Two Cases of Puerperal Tetanus Following Criminal Abortion (Zner Facile von Tetanus puerperalis auch kriminellem Abort) Med 4ff 107 0504 1 1A

In the two cases of tetanus following abortion which are reported in this article death resulted from pentomitis One of the nomen died during con servative freatment with antitoxin and magnesium sulphate and the other following removal of the uterus Bacteriological examination of the removed uterus revealed streptococci and gas bacilli but no tetamis bacilli

In 111 similar cases collected by Schneider the mortality was or per cent DICTRICA (C)

NEWBORN

The Treatment of Melcena Vera Wetterdal P Idlopathica Neonatorum tela obst et gyn c Scand 1926 1v 337

In a study of 200 cases of melana vera idiopathica neonatorum collected from two lying in hospitals in Stockholm, the author found that in the cales given only simplesy mptomatic treatment the mortality was about 50 per cent, in those treated by the injection of gelatin it was 30 per cent, in tho c treated by the injection of the mother's blood it was 20 per cent, and in those treated by the injection of hoth gelatin and the mother's blood it was about 15 per cent. In the cales of infants born at term and weighing over 2,500 gm, the corresponding more tably rates were 50, 30, 13, and 15 per cent, and the incidence of recovery in evere cases was 5, 12, 40, and 43 per cent.

On the hasts of his findings Wetterdal recommends the immediate intramuscular injection of from to to ac cam of the mother's shood and if the hleeding continues a repetition of this treatment or the administration of gelatin Suhnormal temperature and dehy dration must also he comhated

MICHAEL L. MASON M D.

MISCELLANEOUS

Falgairolle P The Identification of the Blood Groups in Obstetrics (L identification des groupes sanguins en obstetrique) Rev franç de gynée et d'obit, 1926 xxi 336

In the author's opinion the theory of Ehrlich is applicable to blood grouping and the general rules of agglutination and tysis hold for the phenomena in blood typing. Falgairolle helieves that there are only four blood types but that the presence among the four blood types of two types each of agglutinus and agglutinogens according to the scheme of Dungern and Hurschfield, explains the mutual reaction between the different bloods

The four groups are represented graphically as follows Group r, ABo Group 2 Ah Group 3 Ba, and Group 4 Oah A and B represent the agglu

tinogeos and a and b the agglutinins and O and o the absence of these. When A and a are mixed agglutioation results. It occurs also when B and h are mixed.

Falgairolle attributes the mistakes in grouping and the belief that there are more than four blood groups chiefly to feehleness of the accluting or agglutiongen and to the phenomenon of oseudo iso agglutination Feehleness of the agglutinin or ag plutipopen as a cause of error is of great importance in obstetrics as there is not only a variation in the power of the agglutimin to agglutinate hut also in the susceptibility of the agglutinogeo to become acclutinated and this variation is much more marked in newborn infants than in adults in fact these powers may not develop until several months after birth Error may be avoided by typing indirectly instead of using the direct method of testing compatibility and by employing sera with a high agglu tinating power

Pseudo iso agglutination is regarded by the author as an extremely rapid sedimentation of the red cells This factor is also of extreme importance in obstet rics as the sedimentation time is shorter in women than in men and tends to become increasingly shorter during pregnancy up to the time of delivery To distinguish between true and false agglutination the author has devised a simple procedure the kaolin test. To three parts of the standard sera 2 and a one part of a one third suspension of kaolin in normal sait solution is added. The typing is then done as usual The kaolin suspension may he added after the corpuscles have been mixed with the sera but is best added hefore All agglutination which resists this test is an iso agglutination and all agglutination which disappears under the action of the kaohn is a pseudo iso agglutination?

MICHAEL L MASON MD

GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Bothe A E. Hypernephromata fan Surg 1926 lavar 57

The following theories have been advanced with regard to hypernephromata

I They originate in adrenal rests

2 They are alreolar sarcomata with no relation to cell rests
3 They are endotheliomata taking origin from

the endothelial luning of perivascular lymph spaces
4. If benigh they may be classified as adenomata
and if mahignant as carcinomata

5 They develop from the endothelial cells lining the blood vascular spaces

6 They are derived from the epithelic lining the uninferous tubules

7 They originate from islands of embryome neph rogenic tissue

As the author has found that in the 16 mm human embrio the anlage cells of the suprarenal cortex are advicent to the metinnephos cells, he is of the opinion that the inclusion of suprarenal cells within the metanephros anlage is not at all im probable.

He concludes also that tissues other than meta nephros especially those developed from the meso nephros mesonephric duct and genital ridge are susceptible to such rellular inclusions

Microscopic evidence of adrenal rest tissue has been demonstrated in close surtaposition to actively proliferating hypernephromata cells there is a marked similarity in the glucosen fut lipoid and lecithin content of the hypernephroma cell and the cortical adrenal cell. The author con cludes that hypernephroma tissue may grow into the walls as well as the lumina of the seins. The metastases of these tumors are formed most fre quently in the bones lung and hier but have been found also in the rete testis epididymis payadidy mis spermatic cord and within above and below the inguinal canal in the male in the ovary (where they may be easily mistaken for shrunken corpora lutea) and on the tubes in the female and in the retroperstoneal tusue below the poles of the kidness along the shopsous muscle at the bram of the pelvis at the sacro that synchondrosis in the capsule of the kidney and in the kidney substance on the walls of the neighboring vessels in the solar and renal sympathetic plexuses between the transverse colon and the spleen in the right lobe of the liver and in the pancreas in both males and females

In conclusion the author states that on the basis of his embryological chemical and pathological observations he agrees with the views originally presented by Grawitz J Syover RITLE MD

Christian E The Clinical Value of the Urea secretory Constant (La constante uréoscentoire en changue) I durel mêd et chir 1926 xxi 501

Christian draws the following conclusions with re gard to the useo ecrefory constant

The present of the considered a sufficient basis on which to establish the indications for operations on the unnary tract

If the indications for such operation were based upon the constant alone patient who would be benefited by operation might be denied surgeat treatment since when the constant is relatively poor the less disea, ed kidney may be able to take over the function of the other.

3 The constant shows chiefly the limits of opera bility without indicating the site of the lesion

4 The site of the le ion and the function of each kidney must be a certined by ureteral catheteria tion which gives this information more easily and with less danger than explorators lumbar incision

5 To determine which kidnes is the more discased and to foretell more accurately the results of operation especially nephrectoms it is necessary to supplement the determination of the constant with catheterization

6 The constant alone is sufficient only for surgical operations on the prostate bladder and ureter \text{UDREY G \text{NORS}\text{ND}

Aschner P St. Stephylococcus Infection of the Renal Parenchymn in J M Sc 1926 cless 63

After reviewing sixty one case records from the files of the Mount Sinai Hospital New York the author concludes that staphylococcus infection of the kidney parenchyma is usually metastatic from a boil Carbuncle paronychia of other peripheral lesion

In the acute cases permephric suppuration de selops early and the diagnosis is relatively easy. In the subacute and chronic cases the clinical mani festations are variable simulating those of various types of thoracic abdominal and spinal disease The absence of striking urinary symptoms and uri nary changes and the indeterminate results of Cisto scopic and hacterological examinations tend to make the diagnosis of cortical abscess or carbuncle of the kidney a difficult one. It is only by bearing the condition constantly in mind and making a search for a preceding peripheral infection by staph slucocci that the insidious cases may be recog nized The evaluation of provocative vaccine injections must await a more extended experience with the method

Some of these infections undoubtedly resolve without frank suppuration. The prognosis with proper surgical therapy in young adults is excellent In children and in older adults it is a graver affection, particularly if metastasis or venous involvement occurs. Nephrectomy is necessary in a few cases, such as those with widespread involvement of the renal parenchyma and persistent bacteriemia. DIGHT G CHURHAM, M D.

Hinman F and Gibson T E Report of a Remarkable Case of Recurrent Urnary Lithlass in a Physician in Active Practice, with an Unbelievably Small Amount of Renal Tissue Deuth Not from Uremia But Due to Cardiac Fallure J Urol 19 6 vol 43

The patient whose case is reported in this article had a calculus removed from the bladder in 1972 In 1977, the left hadney was removed for calculous pyonephrosis. In February 1921, the X-ray showed stones in the rem ining hadney and amura developed. The blood urea then equalled 126 mgm per 100 cm and the two hour phthalen test was 100 per cent. After a pyelotomy, the urea came down to 23 mgm and the red test rose to 3,5 per cent.

In March, 1921, the pulvis of the right kidney and the ureter were again opened and two stones were removed. In May, after a few transfusions the patient resumed his medical practice. In April 1921, the symptoms recurred and the \times ray showed a large stone shadow in the pelvis of the kidney Between March and May, 1923 anuria again de veloped and stones were removed from the institution that the march and the patient died suddenly of heart failure.

Postmortem examination of the right lidney showed it to be small and without a pelvis. On section, several large communicating cavities containing calculu were found to encroach upon the atropluc lidney substance. The pathological diagnosis was calculous pyonephrosis. MAURICE MILIZER M.D.

Patch F S Ureterocele With the Report of a Cise J Urol 19 6 vil 125

In the earlier cases of ureteroccle reported in the literature the condition was found most frequently at autopsy and in young girls. More recent literature shows that it occurs with equal frequency in both seves and at all ages.

There are two chief types a cystic type with thin transparent walls in which the contents of the sac are often discharged from time to time with collapse of the sac and a type in which the walls of the sac are thicker and the tumor is larger often peduncu lated, and more constant in volume

The ureteral orifice varies considerably in its size and location. The contents of the sac may be clear or infected. Often calcula are present. In the case reported by the author a *econdary stone was found in the ureter above the ureterocele.

Ureterocele is usually unilateral, rarely bilateral Its association vith other congenital anomalies par ticularly double ureters, has been noted in about 50 per cent of the cases In the author's opinion, the essential factor in its production is a congenital or acquired stenois of the vesical orifice of the ureter or an intraluminal obstruction acting at the same rount

Ureterocele may be associated with vague renal pain and pyuria

When treatment is indicated it should be surgical. The ureterocele may be attacked through the urethra or by a suprepulse or vaginal operation. The transurethral operation should be reserved for the milder cases. The suprapulse operation is preferable for the pedunculated forms and those complicated by calculus.

The author reports his case in considerable detail at operation a pedineculated mass was found at tached at the site of the right ureter and a calculus was pripated at the bulbous extremity. The ureteral opening, was found at the tip of the mass. The operation consisted in resection followed by suture of the two layers of mucosa with interrupted catigut sutures. One month later a stone was removed from the pelvic ureter of the same side by extraperitonical ureterolithotomy. HARRY A FOWLER M.D.

Micotti R Two Cases of Crural Hernia Contain ing the Ureter (Due cast di ernia crurale dell ure tere) kiforma med 1926 vlii 656

The author reports two cases of femoral herma in women in which the ureter was found in the hermal sac at operation and was replaced in its normal position. In both cases uneventful recovery resulted.

The cause of this condition is not known Age does not seem to be a factor. It is more common in women than men as it is most frequently associated with femoral herma. The author suggests that it may be due to a pithological change in the site and abnormal length of the ureter. Liven the normal ureter is very elastic, Albirran says it can be elongated about 8 cm by simple traction. There may also be an anomaly in its course, bringing it nearer the hermal rings so that it is easily drawn downward with the intestine.

downard with the intestine

The condition might possibly be diagnosed from
disturbances of canalization of the ureter or a de
crease in the amount of urme that cannot be ac
counted for otherwise, especially a decrease which
occurs when a constriction is put around the waist
and disappears when the constriction is released
Other signs of aid in the diagnosis are a hydrone
phrosis contemporaneous with the herma which can
not be accounted for otherwise especially if it is
intermittent, and changes observed on cystoscopy
and catheterization of the ureter. However, none
of these signs is pathognomonic and the diagnosis
is very difficult. If the diagnosis is not made, it is
quite possible for the ureter to be torn or cut during
the operation. If this occurs, the injured ureter
should be sutured and measures taken to prevent
stricture when it heals

AUDREY G MORGAN, M D

Sargent J C Bilateral Ureteronephrosis Associ ated with Congenital Gaping Ureteral Orifices Report of a Case After Four Years of Perma nent Drainage J Ural 1926 xv1 23

It is generally recognized that preteral dilutation is usually due to urinary obstruction or defective innervation of the musculature of the bladder and weteral walls Beyond these considerations the etiology is not so clear. The type of ureteral dilata tion considered by Sargent is that which is associ ated with open functionless preferal orifices but un associated with obstruction or faulty innervation In 1015 Aretschmer and Greer collected from the interature sixteen cases of this anomaly and added one case of their own I wo cases have been added since that time making a total of nineteen

Sargent's case was that of a girl 412 years old the seventh child who was normally born and was breast fed for four months. Lot the past two and a half months she had been in an orphanage and during that time had had measles I few months before her relatission to the hospital her health had rapidly failed and be developed an insatiable thirst with enuresis and the frequent voiding of large amounts of usine. When she was first seen by the author she was poorly nourished her skin was pale and dry and her urine was pale and clouded with pus and colon bacille. The specific gravity of the

urine was 2 co4

During the limit few weeks in the hospital the patient had a low septic type of temperature an astounding thirst and polyuria and several times each day attacks of dyspaces. It was therefore apparent that she was both septic and semi uramic as the result of some urological condition

On cystoscopic examination the bladder mucosa was found normal but the ureteral ornices were seen to be widely gaping I velo ureterograms showed both ureters enormously dilated and tortu

ous and both renal pelves dilated

In order to reheve the intravesical pressure per manent suprapulse drainage was established. Fol lowing this operation the thirst and polyuma sub sided. The patient was Lent under constant obser vation until she died of an intercurrent influenzal bronchopneumonia

Autorsy revealed no obstruction to the normal bladder drainage which could account for the dila tation of the urinary tract above the bladder. The mucosa of the entire tract showed extensive changes due to severe prolonged inflammation CLAUDE D. HOLMES, M.D.

BLADDER URETHRA AND PENIS

Hinman F and Wesson M B The Trigone of the Bladder as a Factor in Urinary Obstruction with a Report of Cases and a Discussion of the Operative Treatment Surg Grues & Obst 1926 thu t

Hipman and Wesson present in detail four cases in which the trigone of the bladder was a responsible factor in unnary obstruction. On the basis of these cases and the literature they discuss the anatomy physiology pathology and treatment of this condition and present an original classification of trigonal abnormalities causing urinary disturbances

They conclude that hypertrophy of the interure teral ridge may result from chronic vesical irritation mild vesical or infravesical obstruction or both and that hypertrophies of the interpreteral ridge may be of a type and position to produce obstruction to The obstructing interpreteral bar or ridge : always an acquired condition but its cause may be congenital. An obstructing interureteral ridge may result also from chronic ulceration usually tuberculous which dissects or undermines the tri gone Marked obstruction from a hypertrophied ridge seems to be due principally to a hydrostatic undermining of the trigone back of it a position practically immune to the formation of diverticula

the treatment of the obstructing interureteral ridge is suprapubic exstotomy and either incision of the ridge with suture and ligature of the incised edges to control hemorrhage or resection of the ridge and the supratrigonal pouch with restoration of the hase of the bladder. The latter is the prefera

ble method when the pouches are deep

Refore operation for a hypertrophied interpreteral ridge secondary to obstruction the primary obstruc tion should be removed and a period of time allowed to elapse to determine whether the removal of the original obstruction will not cause the disappearance of the interpreteral hypertrophy

Jours & CHEETHUR M.D.

Ceccarelii G A Method of Increasing the Capac ity of the Bladder by Means of a Loop of Intes tine (Sul modo di aumentare la capacità i escicale per mezzo di un ansa di intestino esclusa) inn ital de chir 1026 v 346

The bladder has such a great capacity for regen eration that after resections little effort has been made to reconstruct it by plastic operation. But if there are very profound and diffuse changes in the will st may not have sufficient vitality for regenera tion. The disease that most frequently causes sen ous atrophy of the bladder is the dissecting gan grenous cystitis described by Stockel Stockel was also the first to attempt plastic reconstruction of the bladder by means of intestine but he was obliged to give it up because of the gravity and extent of the changes in the bladder Only four other clinical cases of reconstruction of the bladder by means of intestine have been reported. One of the patients died two months later of pronephritis In the other cases the operation was apparently successful but was done too recently for a report of the late results

To determine the practicability of such an opera tion the author performed experiments on dogs In some of the cases he reserted a loop of intestine from 15 to 20 cm long and sutured the divided ends together so that the loop resembled an air cushion. He then made an incision in one side of the cushion and sutured it into an incision of equal length in the bladder

In other cases the proximal end of the resected loop was simply closed and an anastomosis was made between the distal end and the bladder

In still other cases the proximal end was sutured to the abdominal wall

In some cases longer loops were used and in others loops of large instead of small intestine were em ployed

Ceccarelli found that the small intestine became adapted to holding urine. There is no danger of absorption of the urine by the loop of intestine be cause, in time, the mucous membrane atrophies and

loses its absorptive capacity

The results with the use of large intestine were poor because infection occurred and serious renal and vesical lesions developed. The use of small in testine was technically easier than the use of large intestine The results were better when the loop of intestine was sutured in a circle than when the proximal end was simply closed and left free or sutured to the abdominal wall Loops from 15 to 20 cm long were better than longer ones because the longer ones kinked or became adherent to the surrounding tissues Though bacteria were found in the urine on later examination, the bladder usu ally became normal after a slight inflammation of its mucous membrane and infection of the kidney was unusual

A supplementary bladder which contains as much as from 100 to 200 c cm of urine may be constructed in this way The anastomosed loop fills and empties regularly if the anastomosis is made in the proper place and is large enough

AUDREA G MORGAN M D

Gaudy, J and Schillings M Tumors of the Bladder (Les tumeurs de la vessie) Le cancer 19 5 11 Y

This article is a general review of the entire sub ject of cancer of the bladder and is supplemented by a long bibliography The authors believe it cer tain that one of the predisposing causes of vesical cancer is chronic irritation. Bladder tumors con stitute about 3 per cent of tumors in general and about 3 9 per cent of all affections of the urinary

At least half of these tumors are malignant The authors describe the histological appearance of the different forms of tumor and the various methods of treatment

The best treatment for benign epithelial tumors is the application of the high frequency current through the open bladder or by endoscopy Chemo therapy with trichloracetic acid may also be used but is less active. Tumors which are known or suspected to be malignant should be treated surgi cally as early and radically as possible Endoscopic surgical operation should be abandoned for open operation

As radiotherapy is still in the experimental stages, the authors do not feel justified in expressing an opinion as to its effectiveness. However, they be here that as roentgen and radium rays are known to have a good effect on cancer in general and a few brilliant results have been obtained with their use in bladder cancer, their effect should be further investigated and attempts should be made to per fect the technique of their application

AUDREY G. MORGAN M.D.

Hunner's Ulcer of the Bladder-A Dodson A I Report of Ten Cases Virginia M Month, 1926 Int 301

The author presents a report of ten cases of Hunner's ulcer of the bladder and draws the following conclusions

1 Experience justifies the belief that foci of in fection such as infected teeth tonsils sinuses and possibly cervicitis bear a causative relation to Hun per sulcer

7 The bladder lesion is frequently complicated by ureteral strictures or infection of the kidneys which must be eradicated before permanent relief

can be obtained 3 Very gratifying results have been obtained in early cases from instillations of silver nitrate

4 Excision of the ulcer bearing area of the blad

der should be reserved for cases that do not respond to local medication or fulguration 5 In long standing cases of elusive ulcer there is

contraction of the bladder wall and urethra In such cases dilatation of the uretbra and irrigation of the bladder are helpful after fulguration or resection

J SYDNEY RITTER M D

Reynard Radium Therapy of a Bladder Cancer Cure Persisting After Two and a Half Years (Curietherapie d'un cancer vésical guérison depuis deur an et demi) J d'uro' med et chir 1026 vxi.

A noman 65 years of age had a cauliflower cancer of the bladder which was found on histological examination of an excised piece to be a stratified pavement epithelioma with infiltration of the whole of the left wall Two treatments by electrocoagula tion had destroyed a part of the growth but had not affected the infiltration. As the tumor was too frable for the introduction of radium needles, three tubes containing altogether 75 mgm of radium were introduced through a cystostomy opening and fied to the tumor The bladder was then tamponed and was drained by means of a Freyer drain. The radium was kept in place for forty eight hours

Ten days later palpation showed that the infiltra tion had entirely disappeared the bladder wall was soft and pliable The suprapubic fistula closed quickly and the urine cleared up and lost its gan grenous odor Today, two years and a balf after the irradiation the urine is clear, the bladder wall is soft and there is nothing to be seen which might

arouse suspictons

In the author's council radium should be used more frequently in the treatment of bladder cancer It should be introduced through a cystostomy open ing as its introduction through the ureter on a sound is dangerous. Curettage of the fungosities is contraindicated as it is not they that are dangerous but the infiltration and curettage may disseminate the tumor Acedles are preferable to tubes but if their use is impossible the tubes may be tied to the tumor as in the case reported ALDREY G MORES MD

Chauvin and Maisonnet Urethrorectal Pistula Interpretation of the Levators (Listule uretro rectale myorraphie inter uretro rectale des releveurs) J d'ural méd et chir 1926 *** 363

In the case of a man 44 years of age Chauvin treated a urethrorectal fistula first by Cooper's method but the fistula recurred Though Cooper's method is the one most frequently used it is often followed by recurrence and many modifications of at have been devised. In the second operation in the case reported Chauvin used an entirely new procedure

He dissected the urethra and rectum apart removed all of the scar tissue and after obliterating the urethral and rectal orifices of the canal summed the two levator any muscles from in front backward. for a distance of about 4 cm making a vertical separation between the urethral and rectal onfices The urethral orifice then lay above the laver of muscle and the rectal ornice below it

Following this procedure there was little chance for the fistula to recur even if the sutures did not hold As a matter of fact the rectal wound did break down but as it opened externally it caused only an ordinary fistula of the margin of the anus which healed spontaneously in a few weeks To permit free drainage the skin wound was left onen except at the angles where a few sutures were introduced Athrey G Morgan M D

GENITAL ORGANS

Bumpus II C Jr The Results of Punch Pros tatectomy J Urol 10 6 xvi 50

Bumpus reviews the history of median bar ob struction and comments on the fact that in spite of nearly a century a recognition of the condition the punch prostatectomy has not been employed to any great extent until recently. He attributes this fact to the technical difficulties with the old instruments

In his opinion the best instrument is the improved median bar excisor of Braasch with which the en tire operation can be performed under direct vision and a clean cut wound is produced which is much less prone to give rise to secondary pyelonephritis or delayed hamorrhage and heals more quickly than the large cauterized areas resulting from the use of cautery punches Bumpus prevents bleeding by coagulating the bleeding points with the Bugbee electrode Comment is made on the fact that punch prostatectomy in the pre ence of lateral lobe enlarge ment is usually not satisfactory

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Bloodgood, J C How to Diagnose and Treat a Bone Lesion J Bone & Joint Surg 19-6 vm 470

Latent and healed lessons in bone are as a rule discovered by Y ary examination made because of a recent injury. These lessons are usually bone cysts. In no case without previous symptoms has a reentgenogram taken because of recent injury revealed a manticell tumor, a sarcoma, or a metastatic tumor. When the injury was associated with fracture, cysts and metastatic tumors have been found Rarely is a fracture the first evidence of a primary sarcoma or guant cell tumor.

Trauma is of little or no importance as a cause of bone cysts but may be a factor in the production

of mant cell tumors

Chondromata are believed to be congenital residues Myxomata are probably degenerative processes in chondromata which later assume neoplastic characteristics. Both lesions may be central or perioteal. When they occur in the epiphyses in adults they are difficult to diagnose from giant cell tumors.

Sarcomata as a rule involve the entire bone. The majority of central sarcomata are my vosarcomata or chondiosarcomata. A true periosteal sarcoma occurs, however, which may take the form of a

fibrosarcoma or osteogenic sarcoma

Of the diffuse sarcomata there are two distinct types, the sclerosing and the osteoporotic type These can be readily diagnosed from the roentgen picture, the sclerosing type being characterized by evcessive periosteal bone formation and the osteoporotic type by the appearance of atrophy in the shaft and not in the bone ends. In raise cases, bow ever the picture of the latter type is suggested by multiple my elomata

One of the causes of sarcoma is single or repeated

crauma

Since in so many cases of sarcoma there is a his tory of trauma, a roentgenogram made at the time of the injury i very valuable as it may be used for compan on with a later roentgenogram if the signs and symptoms do not subside or if they re appear

When a clear space is seen between the shaft and a man of bone in the soft parts, sarcoma may be excluded but when bone formation begins in the perosteum and is of slight degree, sarcoma cannot be excluded Excessive ossify ing perostitis and ossifying myositis can readily be recognized but it is difficult to differentiate a subpenosteal hermatoma with ossification and penosteits with slight ossification from sarcoma

Usually the chief complaints of patients with a bone lesion are pain a palpable swelling, and loss

of function The older the lesion the more readily the diagnosis is made. A careful history is essential.

The feeling of a bone shell surrounding a central lesson is entirely different from that of the periosteal mass of a diffuse periosteal lesson. Pain and tender ness are often very helpful in establishing, the diag nosis. A Wassermann test, a blood count, an examination of the chest for tuberculosis, and an examination of the chest for tuberculosis, and an examination for primary tumor are very necessary. As multiplicity of the lesson will put it in an entirely different group, a search should be made for other lessons. The roentigen ray examination should in clude roentigenograms of the chest and of the affected and the corresponding uninvolved bones.

A single central lesion of the shaft in a child under 18 years of age is practically always a bone cyst Central giant cell tumors are rare in early life Multiple myelomata may occur at this age, how ever and as this disease may come under observa tion as a single lesion it must be considered a nos

sibility

If there is a fracture, it should be treated as an ordinary fricture. Ossification usually takes place in from three to six weeks. If ossification fails to occur in this length of time, exploration should be done because of the possibility that the lesion may be a giant cell tumor which requires curettage followed by thermal and chemical cautenzation.

If there is no fracture, the progress of the lesion should be kept under observation by frequent roentgen examinations. If ossification is delayed, operation should be performed and the cyst fractured after a piece of its wall has been removed to prove that it is a cyst. A cyst appears as a bone shell and fluid, a shell with a connective tissue lining, and fluid or a shell with a connective tissue with or without minute cysts.

If the lesion is a giant cell tumor, the cavity is filled with soft bæmorrhagic, cheesy material which bleeds like granulation tissue and the shell bleeds

when it is curetted

A caseous tuberculous mass is rarely found

Bone grafting is indicated only in neglected cases with very large bone cysts

Central lesions of the sbaft in adults are usually chondromata, mycomata, metastatic tumors, mye lomata, or cbondromyxomata The author has never seen a giant cell tumor in the shaft in an adult. If a latent cyst is found it should be treated as described.

In the treatment of central lesions of the shaft other than cysts in adults the use of radiation first is justifiable. If ossification does not take place after a time operation is indicated. If the lesion is not a cyst, resection and bone transplantation should be done under any circumstances because this re stores function for as long as the pritient will live hetter than any other treatment

Multiple lesions of the shaft are usually cysts or my clomata in children and my clomata or metastatic

tumors in adults

Central lessons of the epophysis are rare in chil dren and when found are gant cell tumors. In adults these lessons are usually grant cell tumors but occasionally are scattered bone cysts chron dromata myxomata my wchondromata metastatic tumors or multitole mychomata.

In the treatment radiation may be tried hist During the radiation period the patient should be at rest in bed in sphints or on crutches. If ossifica the design of coccur within the hell carattage with thermal and chemical cauternation is indicated. In lesions of the cipphysis of the lower end of the ulns and both ends of the fibula resection is indicated It is essential that curettage be done before the bone

shell is destroyed by the disease

In conclusion the author emphasizes that the chief aims of the surgeon should be to avoid making a diagnosis of makiganer, in cases of beingin bone cost to treat a beingin gain cell tumor of the epiph was before it causes thinning or destruction of the bone shell and thereby renders the functional result of treatment less satisfactory, and to recognize the central saccomata and the beingin chondromata so that in cases of the former exploration may be done under the protection of the cautery and the lessons removed reductably by resectioner amputation. In cases of removal by amputation mutilating operations may be avoided.

PREDERICK A JOSTES VI D

Christie A C Osteochondritis or Epiphysitis J

Christic reviews the anatomy of the epiphyses and discusses the etiology pathology and types of epiphysitis

The cause of epiphysitis is still under di cussion Tuberculosis rickets and syphilis have been ruled

out The infections theory has very little evidence to support it and the endocrine theory is still pure assumption. Although in many cases no history of trauma is given the traumatic theory is supported by the fact that the condition occurs in locations subject to the long continued traumvolv eight bearing and muscle pull. This traction is believed to interfere with the circulation and thereby cause necross involving both the bone and the cartiage

of the epiphiss Epiphistis occurs in the following locations (1) the upper epiphiss of the femur (Legi Calve Perthes disease) (2) the timal tubertle (Osgood Schlatters disease) (3) the timal tubertle (Osgood Schlatters disease) (3) the timal scaphoid and the head of the second mentantsal (4) the wertebrar (5) the os calcis (6) the olecranon and (7) the nimm Its occurrence in the litum is very position.

TREDERICK A JOSTES M D

Ruggles II E and Bryan L Bone Malignancy from the Roentgenological Aspect Rodulogy 1926 vn 24

At the present time typical examples of the following primary tumors may be recognized with fair occurrey from the roentigen evidence. (1) guart-cell tumor (2) ostrogenic syrroma (3) undofferentiated costeogenic sarroma (4) endothelioma and (5) mye foma. There are many borderline and atypical esons which are not clean cut either roentigenologically or pathologically. Growths may start as one form and develop into another.

Lach of the tumors listed is described in detail e pecially as regards its roentgenographic appear ance. Seventy two cases of malignancy observed by the authors are tabulated with regard to the ba

tient's age and the location of the lesion

Of the metastatic processes those of carcinomy are the most common and the most characteristic. The leans are usually multiple and widely distributed and may occur in the form of moth caten or localized cyst like areas. The type secondary to prostatic disesses is characterized by o teo orders in the prometation of cases and the processes. By perinciphroma occasionally, gives rise to a single metastasis. Lymphoma which is particularly common in the spine may appear in the can cellous bones of persons who have been subjected to prolonged radation. It resembles carcinoma

ADOLPH HARTUNG MD

Mills C P An Apparent Case of Primary Epi thelioma of Bone Brit J Surg 1026 tiv 181

Mills reports the finding of an apparently primary epitheloma at the louter and of the right fermat of a 27 seriod of man. The patient was suffering also from annilosis of both hips due to tuberculoss. At the time of the examination made by the author the mass had been noted for four months. It was about the size of a small orange and of a firm but not bon hard consistency. Its edge was well defined. No egg shell cracking was noted. The ingunial glands were enlarged and there was stiffness of the here

The pathological diagnosis based upon a section of the tumor which was removed was basat celled epithelions primary elsewhere. The pathologist stated that the growth was of a type not infrequently seen at the bottom of a sunus but in this

case there was no sinus

Since in a thorough roentgen and physical examination no primary growth could be found the legwas amputated below the hip and the glands were removed from the grout. Within one month the patient was discharged appurently well.

Fifteen months after the amputation there was evidence of metastasis in the clavicle and lung and

death occurred two months later

At autopsy metastases were found in the right hip the percardium the lungs the presertebral to suis from the sacrum to the posterior mediastinum and the right clavicle

The skim peritoneum liver spleen kidneys brain and cord were negative Ihe histological picture was that of certain slowly growing epithelial tumors of the skin. Although the pathologist maintuned that a primary epitheboma must have existed elsewhere, none could be found by the most careful search. The author therefore assumes that the growth was primary in the femur. HENRY IR TRITIS WID.

Coley, W.B. Local Injury as a Causative Factor in Bone Sarcoma with Especial Reference to the Medicolegal Aspects Internat J. Med. & Surg. 1926 XXII., 259, 318

From an analysis of the cases of bone sarcoma which have come under his observation during the last thirty years. Coley draws the following conclusions.

There can no longer be the slightest question that in sarcoma, and especially sarcoma of the long bones, a single trauma in the form of a bruse a sprain or a fracture may be the direct exciting cause of the tumor.

It is fair to conclude that trauma is the important factor in the development of the disease in a very high percentage of the cases—about 50 per cent

The interval between the injury and the first appearance of symptoms or signs may vary from a fewdays to two years or more, but in the great majority of cases it is less than six months and in 50 per centless than one month

A rational and thoroughly scientific explanation of the causal relationship between trauma and the timor is possible if it is assumed that malignant tumors are due to some form of nucro organism or

In order to establish a relationship between an injury and the development of a malignant tumor from the medicolegal standpoint it is necessary to establish the authenticity of the traumar The trauma must have been of sufficient importance or severity there must be reisonable evidence of the integrity of the part prior to the injury but tumor must have developed at the site of the injury the date of appearance of the tumor must not have been too re mote from the time of the injury and the diagnosis must be established from climical and X ray evidence and supported if possible, by microscopic evamination

The article is supplemented by a very full bib hography A Gottles, M D

Meyerding H W The Surgical Aspect of Bone Turnors Radiology 19 6 vii 29

In most cases of bone tumor the surgeon who has had experience in interpreting roentgenograms of osseous lesions can usually make a correct diagnosis. In some cases however, the diagnosis is not clear until after exploration, and in rare cases the diagnosis of malignant tumor is missed until metastasis or death occurs.

The roentgenogram is of great aid in the differentiation of bone tumors, but it is especially valuable in the recognition of metastasis to the lungs long

before the clinical signs of such metastasis are apparent. When malignancy is suspected no operative procedure is justifiable without a roentgenological examination of the chest. Both diagnosis and treat ment demand consideration of all clinical and laboratory methods available. The operability of a tumor depends upon its character, type, size, and site, the extent of its progression, and the patient's general physical condition, age, and sex.

Various forms of tumor are reviewed with illustrative case reports. A case of chondroom is discussed. The entire tumor must be removed by curettage. If the cortex is bulging it may be crushed in and closure made by layer. Splinting may be

necessary to prevent fracture

In cases of ostents fibrosa cystica the best results are obtained by thorough curettage, crushing in of the exposed cortex, and layer suturing if the diag nosis is made early and multiple forms are excluded. The term ostetis fibrosa cystica 'is used to include the inflammatory cysts and the local and general types of fibrocystic disease.

Guant cell tumors are considered benign and should be treated conservatively, providing functional improvement is possible. They were formerly regarded as malignant, and no doubt reports of cures of sarcoma by amputation have been based on confusion in the diagnosis. In the case cited by the author the pathological diagnosis at operation prompted conservative treatment and the limb and its function were preserved.

Endothelioma usually affects the shaft of the bone as a diffuse swelling involving the periosteum and the periosseous structures. It reacts more favorably to radiotherapy than any malignant tumors of bone that the author has observed. Pulmonary metastasis is inevitable and soon ends life.

to the visualic and book char in

Dralinslaja E S Experimental Findings with Regard to the Healing of Defects in Trans versely Stricted Muscle and the Regeneration of the Latter (Experimentale Expensive zur Heilung der Defekt eig der quergestreiten Muskulatur und zur Reseneration derselben) Verhandl d 16 russ Chir Kong, Noscow 1920 p 1 1

The author studied the beabing of defects in the rectus femons muscle in twenty two experiments on rabbits. Sections from r to 1% cm in length were excised, the intramuscular fascia being left infact. The muscle defect became filled with blood. The duration of the experiments ranged from two days to a year.

In all cases there was regentration of the muscle fibers from the pre existing mu cle fibers as the result of a budding out of the muscle tissue with longitudinal division of the fibers. The muscle buds invaded the loose granulation issue filling the defect. After from one and one balf to two months the latter underwent a metaplasia into fatty tissue. The muscle buds continued to grow in the fatty tissue so that, even at the end of a year, the growth of the muscle was still proceeding.

20

By means of vital staining with trypan blue or carmine it was lound that the regeneration of muscle is sue took it origin only from pre existing muscle fibers and never from connective tissue or granula toon to use

In no in tance was it possible to demon trate scar formation at the ite of the defect

KORSHINS (Z)

key J A The Mechanisms Involved in the Removal of Cotloidal and Particulate Carbon from Joint Cavities J bon & Joint Surg 1936 vin 660

The author reports a very interesting series of experiments performed to determine the natural methods by which carbon particles are removed from a joint civity.

Higgin's American India ink a coarse colloidal solution of carbon containing some large particles was injected into the kinee joints of adult rabbits the animals then being sacrificed at intervals of from one to one hundred and four days.

Most of the carbon was phageeytized by macro phages and leucocytes and by the tenth day after the injection the great part of it had been carned out of the joint cavity by these cells

Small amounts of free earbon pa ed through the intact sy novial surface the sy novial cells taking up small amounts and holding them indefinitely

A variable amount of carbon was held in fibrin clots which became attached to the synovial mem brane and over which new synovial membrane greath over the control of the carbon reached the populated by mph nodes.

Nost of the carbon remained in the loose tissue around the joints and was moved from one area to another by succeeding generations of macrophages. The living leucocytes quickly expelled the ingested carbon.

Connective it sue and bone cells of various types retained small amount of the carbon indefinitely. The extracellular carbon was slowly absorbed as colloidal carbon and carried by the blood stream to the reticulo endothelial system.

ROSTAT V PUNTES M.D.

KOBERT V TENSIES WE

Haas S L Growth Disturbances Foilowing Re section of Joints 1rch Surg 1020 xm 36

For the treatment of knee joint diseases in joung persons who are growing the majority of surgeons favor conservative treatment. The author made a study of the effect upon growth of resection of the normal knee joint in twick young rabbits. This report is by ed upon the findings in four animals as the others died.

Haas found that careful re ection of the normal knee joint cau de practically no disturbance in length growth but that growth was arrested by any injury to the blood supply of the epiphysis such as that produced by the passing of sutures through the actively growing columns of eartilage cells

CLUEN J BERKHEISER M D

Burbank R Vaccine Therapy and Serological Di agnosis in the Arthritides J Bone & Joint Surg 1926 vm 657

Popoli in 1837 first produced an arthritic lesion experimentally with streptococci. In 1912 Hastings first u ed the complement fixation tests in arthritis employing streptococci as an antigen.

As a result of such investigations vaccine therapy earne into vogue and was hailed as a panacea When it proved disappointing foreign protein infections were tried out with slightly more success and

occasionally a very brilliant result

In 1016 the author working under Hastings
again began intensive serological work on arthritic

le jons

Different types of straptococci from the teach ton all sanuses masophary ne gall bladder intestinal trief and postitie were cultured and tested for complement fivation with the patient's blood vacine made from the ecultures and u ed for treat ment gave far more satisfactory results than had been obtained previously. At pre ent thirty five strains of streptococci of various types and from various for jure used

The first step in the examination of the patient's blood is the determination of its complementary value. The case is then treated according to its erological classification. The prognosis bears a constant relation to the extent of the reaction.

The author concludes that lavorable results may be obtained in practically all cases of arthritis showing a favorable complementary value when there is no undrained focus or debuliating disease present and when the treatment is continued over a considerable period of time

I OBERT | IUNSTEN MD

Hanson R Tendovaginitis or Tendinitis Steno sans telachining Scand 1926 lx 281

The author reports a case of tendovaginitis or tendinitis stenosans of the abductor policis longus in a man 38 years of age

At operation the limitation of extension and adduction of the thumb was found to be due to a spool shaped contraction of the tendon resulting from a partial rupture case db to a blow on the distal side of the stilled process of the radiu Normal mobility of the thumb was restored by opening the tendon sheath

The author believes that similar cruses may be the reports this case as each in nature. He reports this case as evidence of the fact that the tendon it off rather than the tendon sheath may be the site of primary changes.

Henderson M S Chronic Ostellis of the Semt Junar Bone (Ktenboeck's Disease) J Bone & Joint Surg 1926 vin 504

Numberck s disease is a chrome slowly progress ing type of osteries of the semilunar bone. On the basis of the etiology three forms are recognized (1) an anatomical form due to abnormal pressure hines from anatomical anomalies (*) an occupational form due to repeated minor injuries, and (3) a traumatic form due to a single marked pressure insult. The condition is characterized by the following three stages.

In The acute stage, which lasts possibly only a few hours and comes on immediately after the in jurn. This never persists for longer than a few weeks. According to the theory advanced by Niembock, there has heen a subluvation with spontane ous reduction which has cut off the blood supply and has heen followed by nutritional disturbances in the hone.

2 The stage of friedom from pain and disability,

The stage of osteris and dr ability

With the exception of a lack of prominence of the head of the third metatarsal the objective find ings are slight. The pain is aching annoying and on excessive use of the wrist quite severe. There is tenderness over the semilunar hone with usually slight swelling and a moderate degree of restriction of motion.

The roentgenograms are at first negative but

later show ostertis of varying degree

The author reports two ca es with a typical his tory and findings. Surgical treatment was advised against and splints were recommended. The prognosis for complete function was not good.

Sprogis G A Contribution on the Theory of the Inheritance of Dupuytren's Contraction of the Finger (Beitrag zur Lehre von der Vererbung der Dupuytrenschen Fingercontractur) Deutsche Tischr f Chir 19 6 exci. 259

As Sprogis was able in one family to trace Dupty tren's contracture through three generations he agrees with Krogius Posner Neumark Smend and others that the condition may be inherited as a recessive character

Duput tren scontracture seems to he more common among males than among females. The tendency toward sclerosis and pathological changes in cases of Duput tren scontracture affects not only the palmir fascia but also the overlying skin the tendons over the joints the nails and the connective tissue of the funica albuginea in the septimp penis. Block. (2)

Dresser R Lymphoblastoma (Hodgkin 8 Disease) of the Sternum Am J Roenigenol 1926 xx 525

Dresser reports four cases of Hodgkin's disease of the sternum which were seen in a period of three years at the Massachusetts General Hospital In all the condition of the sternum was a complication of a generalized involvement. Since there is no lymphatic tissue in hone, the process must be of a metastatic nature. The roentgen ray demonstrated a destructive type of lesion such as is seen in metastasis to bone. Such osseous lesions respond well to ridiation therapy and their presence does not seem to have any effect on the progress of the disease.

Charlis II Higheors, MD

Smith L D Tuberculosis of the Hip in Children J Bone & Joint Surg 1026 viii 636

This article is a report of twenty seven cases of tuherculosis of the hip treated by conservative methods at the Massachusetts Hospital School, Canton Massachusetts

An intensified hygienic regime was followed without special emphasis on any one factor except per haps fresh air. The patients in which the condition was active were given hed traction until the acute symptoms subsided and then allowed to go about wearing a Bradford abduction splint.

In all of the cases healing occurred A useful joint was obtained in 2. per cent and anly loss in 98 per cent In 40 per cent all anly loss in 98 per cent In 40 per cent abscesses developed during the course of the treatment. The length of time that the treatment must he continued to obtain a cure is not tated. The progress of the disease has a definite relation to the patient's general condition.

ROBERT V FUNSIEN M D

Duvernay and Parent The Roentgenographic Anatomy of Chronic Arthritis of the Hip (Con siderations sur I anatomic radiographique des ar thirtes chroniques de la hanche) Rer d'orthop 1026 YUNII 173.

Malformation and arthritis of the hip are common conditions and when associated may give ne to very complex roentgenographic pictures. The most confusing pictures are produced by combinations of chronic arbitis with coar plana. The article in cludes ca e reports and illustrations of the various combinations of conditions of covered to the combinations of conditions of covered to the combinations of conditions of covered to the combinations.

LAWRENCE JACOUES, M D

SURGERY OF THE BONES, JOINTS, MUSCLES TENDONS, ETC

von Lackum H L Operations in the Treatment of Spastic Paralysis J Bone & Joint Surg 19 6

The operative methods used in the treatment of spastic paralysis include tendon lengthening the transplantation of over active muscle groups, peripheral nerveresection and ramisection. Following all of these procedures muscle training is essential

The author warns against over correction of the deformity by tendon lengthening or partial neurectomy of the nerves to the over active muscles

The Hibbs method of tendon lengthening is recommended hecause of its accuracy in gaining length and hecause it maintains tendon tissue continuity

The fact is emphasized that all deformities in pastics can be prevented as well as the original injury to the brain Frederick A Jostes M D

Hammond R Transplantation of the Fibula to Replace a Bony Defect in the Shoulder Joint J Bone & Joint Surg 1926 viii 6 7

In a case of fracture dislocation of the upper end of the humerus, several attempts at reduction were made Furully after fourteen needs open reduction was retempted. Non unon resulted and because of infection, the removal of the detached head and needs became necessary. Later the upper end of the fibula was transplanted to fill the detacency. In the course of about as months there was great improve ment in the function of the arm rotation and abdue tion becoming possible.

non becoming possible
Repeated X riv examinations made following the transplantation showed a gradual increase in the size of the transplanted fibula until it reached almost

the size of the humerus

ROBERT V TUNSTEN M.D.

Page C M Elmslie R C Bristow W R Dunn N and Others Discussion on the Late Results of Operation for Chronic Lainful Hip Irr Po So Med Lond 19 6 w Sect Oribop 39

Page states that the choice of operative procedure in chronic paniful hip due to esteo arthritis or chromic arthritis secondary to a fracture of the neck of the femur or the acetabolum is dependent upon the patient's use and general condition. In the cases of voung run middle aged patients the object should be to relieve the pain and obtain a stable tonit. This is done best by producing and klosis of

the hip

For the elderly patients who occasionally suffer pain in the lumbar spine and the sacro shac articula tion after fixation of the hip he advocates extission of the head of the femur or the production of a pseudarthrosis at the base of the neck of the femur by the Jones method. These operations will relieve the pain but leave an unstable joint and when a fibrous joint results there is a tendency toward the development of an adduction deformity.

Electr has found arthrodesis to be the most successful operation and recommends it for monre ticular cases in both young and aged persons. The results of arthrophysis in his cases were poor as often the pain persisted or the joint became anks.

losed

In cases of ununited intracapsular fracture with pain Elmshe found that the best operation was excision of the femoral head with lowering of the greater trochanter which gave a certain amount of stability.

Dun states that painful hips are frequently in a position of from 60 to 90 degrees of flexion and if this is corrected by a simple osteotomy the pun will often be relieved

In cases of old arthrito—tuberculous and pyogenic—Fairnani, has obtained good results with the Lorenz bifurcation operation but in a case of congenital dislocation in an adult this procedure was unsatisfactor.

To insure permanent free mobility of the hip in cases in which the back and both hips are ankylosed Girantersony advocates resection of the neck of the femur followed by fixation of the greater trochanter on top of the femur from which the neck has been severed Funn J Berkhersen M D

Cumpbell W C Arthroplasty of the Hip an Analysis of Forty Eight Cases Surg Gynce & Obst 1926 Itin 9

The author reviews forty eight arthroplasties of the hip twenty three of which were done for anky losss in one hip in twenty three patients and twenty five of which were done for bulaterial anky losss of the hip in thirteen patients. Of the twenty three patients with undaterial ankylosis even could not be trived but were kept under observations for a sufficient length of time to obtain valuable information. Of the sixteen who were traced thirteen showed very definite improvement whereis of the timenty five patients with bulaterial ankylosis only seven showed unprovement.

The operation gives the best results when it is performed between the eighteenth and thritteth vears. It should never be done in cases in which the ankylosis is the result of inderculosis in old cases of ostrom-chits with dence chumated bone in cases with evidence of acute infection in cases with evidence of acute infection in cases showing ostroporosis or marked alrophy or cases of arithms deformans. Its field is therefore limited to easies resulting from trums and cases of acute

infectious arthritis

Through a hocher ancision the great toochauter is secreted and dissected upward with the gluteal muscles. An incision is then made parallel with the neck of the femur and the capsule and adherent soft structures are freed from the femoral neck and the actabulum by means of a large chief from the actabulum by means of a large chief the curve conforming to the head of the femur. The head of the femur and the section of the femur and the head of the femur and the section of the section of the section of the head of the femur and and safeticed onto the head of the femur to double have between the raw articular surfaces.

On the completion of the operation skin traction of from to to 20 lbs is applied and the hip is fived in plaster for ten days. The space is then biviled from the ankle to just below the creat of the ilum so as to permit hip flevion and prissive motion is begun at the end of four weeks the cast is removed and the patient is allowed to walk with crutche but at might the plaster cast or a double Thomas hip brace is applied to prevent malposition. When the patient first begins to walk, at Thomas walking calper or a Bradford abduction brace may be used.

to prevent weight bearing
FREDERICA \ JOSTES \ M D

Ferrero 1 Lesions of the Semilunar Fibrocarti lages of the Ames Joint (Le lesion delle fibro cartilegan semilunan dell articolazione del ginos chio) Chie d organi di morrirento 10 6 x 31

Lesions of the semilunar fibrocartilages of the knee joint are seen more frequently in England and America than in Italy because they are generally due to football and other active sports. In recent years, however, they have become more common in Italy, but are often incorrectly diagnosed and given merely physical treatment when they should be op

erated upon

The author describes five typical cases of lesions of the internal semilunar cartilage. In the first three there was only detachment of the attachment he tween the meniscus and the capsule with more or less displacement of the meniscus In the fourth case the anterior horn was broken off in addition In the fifth case there had probably been an old fracture of the memscus the fragments of which had become fused together to form an osteocarti lagmous block fixed in front of the anterior ligament

Typical symptoms of such lesions are blocking of the joint pain along the interline and hydrarthrosis. but these are by no means noted in every case and the most marked symptoms are not always associ

ated with the most serious lesions

The roent en examination was positive only in the author's fifth case in which there was a partly calci

fied cartilaginous block

When there is a true luxation of the meniscus meniscectoms should be performed. The meniscus may be easily removed through a parapatellar in cision from 7 to 10 cm long made between the border of the patella and the lateral ligament

In all of the author's cases, recovery was rapid and complete The patients are now engaged in their usual occupations and ome of them are play AUDRES G MORGAN M D

ing football

FRACTURES AND DISLOCATIONS

Newell, E. T. Fractures Epiphyseal Separations and Dislocations A Resume of 1 114 Cases South M J 19 6 vix 688

The experience gained in the late war in the treatment of fracture has been applied by the author in his civil practice Chiel among the ad vances made in this work was the recognition of the fact that accurate approximation of the fragments is not of prime importance so long as correct align ment is obtained

In all of the cases reviewed the fracture was re duced as soon after the accident as was permitted by the patient's general condition and the condition of the soft tissues General anysthesia was used

almost exclusively

In nearly every case the fluoroscope was used in the reduction and after the reduction roentgeno grams were made and checked with the fluoroscopic picture Only slight differences were noted. The cla sical treatment and the accepted rules regarding the positions of different fractures were adhered to but by the use of the fluoroscope at the time of the adjustment the different angles and positions could be varied so that more satisfactory results were obtained In compound fractures debridement was done and if there had been opportunity for the occurrence of infection, the fracture was partially adjusted and thoroughly dakinized for from twenty

four to forty eight hours before complete approximation, suturing, and splinting were done

The treatment did not end with the removal of the solints, the patients being discharged only after maximal function had been restored with the aid of all available and indicated physical measures

A GOTTLIER M D

Henderson M S Noble T P and Sandiford, K Ununited Fractures with Special Reference to the Chemistry of the Blood J Bone & Joint Surg 1926 vin 607

Blood calcium and blood phosphorus determina tions in the routine treatment of delayed union give little support of chinical value, yet they do not disprove the theory that bone formation is dependent

upon a physicochemical mechanism

The authors' observations were made in the cases of adults in whom the amount of phosphorus in the serum is less than in children and the clinical solu bility product does not have the same value as that found in children with rickets. However, it was noted that when the readings for phosphorus were low union progressed slowly and the bone metab olism was luggish whereas in one case in which the phosphorus was high, union was very rapid

For the treatment of unumted fractures the authors advocate exposure to sunshine and artificial light, the administration of calcium and cod liver oil a well balanced diet and in obstinate cases, operative treatment consisting in proper approxima tion of the fragments with minimal local injury

LIVEN I BERKHEISER M D

'Tenosuspension ' for Habitual Henderson M S Dislocation of the Shoulder Surg Gines & Ob. 1926 thu 18

Henderson reviews the literature on operations for recurring dislocation of the shoulder and discusses the following methods (t) operations on bone such as arthrodeses and excisions (2) plastic operations on the capsule (3) plastic operations on the glenoid fossa or the implantation of a bone graft on the anterior inferior margin (4) plastic opera tions on the muscles (5) plastic operations with the use of fascia lata, and (6) ' tenosuspension suspension is described in detail

The recurring dislocations are usually of the sub coracoid type, which produce a herma of the capsule at the inferior margin of the glenoid fossa. When once the habit of luxation has been established, the luxation recurs on the slightest provocation and the disability is immediate. As a rule in such cases the primary treatment was at fault. In the primary treatment there should be fixation for three weeks and no attempt should be made to bring the arm to a right angle for six weeks When a second dis location occurs the fivation should be continued for six weeks to allow cicatrization of the capsule and this should be followed by physiotherapy

In the Mayo Chinic thirty cases have been treated by either capsulorrhaphy or the muscle plastic oper

ation Following capsulorrhaphy it was found that in only 42 per cent of the cases was there no recur rence of the dislocation although 23 per cent could be classified as either cured or improved. In 26 per cent however there was no improvement I miure followed the Clairmont or muscle plastic operation

in 37 5 per cent These operations have now been abandoned at the Mayo Chine Tenosuspension has been performed with good results on three patients two of whom were epileptics. In this operation the patient is placed on his side and the acromoclavicular ment exposed by a curved incision made over the deltoid with the base up. A hole is then drilled through the acromion process and the head of the humerus and a free tendon graft to cm long obtained from the peroneus longus is passed through these channels and sutured. In the cases of epileptics, a silk fishline is used in addition to prevent undue strain on the newly formed ligament. The arm i then fixed to the side for ten days and no effort is made to raise it from the side for six weeks or to a right ancie for six months. The arm is kept handaged to the side for three months. The operation prevents the downward excursion of the head

Thirty cases in which operation was performed

are reported

Taylor W A Fractures of the Upper Extremity and Their Treatment Aorthuest Med 1926 xxv 355 Gleveland II E Fractures of the Leg Versharst

Wed toth ver the

TAYLOR states that the prognosis of fractures about the wrist especially the Colles fracture de pends upon the pathological changes in the adjacent structures. As is generally true in most fractures the earlier and the better the reduction the less these changes

For most fractures the early use of physiotherapy is advocated but in fractures of the head and neck of the radius early movement is contra indicated because of the tendency toward the over production

of callus

Fractures around the joints should be treated with the parts in the position of election. The elbow chould be in acute flexion and the humerus in abduction

For compound fractures of the leg CLEVELAND advocates con ervative treatment consi ting in early reduction cleansing of the tissues traction with tongs and the application of dre sings followed by the use of a split cast

ELVEN J BERKHEISER MD

Weinstein M Fractures of the Humerus A Study of Fifty Three Cases 1m J Surg 1016 ns 1

In fractures of the bungerus closed methods usually suffice Perfect anatomical adjustment is not neces Early passive and active motion is very important in promoting early healing

I ractures of the upper end of the humerus are best treated by abduction traction and counter traction with the use of a Balkan frame and a Thomas splint For fractures of the shalt the Osgood Penhallow and Mitteldorpp triangles are best In fractures of the lower third acute flexion of the elbow is indicated

Radial nerve paralysis occurs in from 4 to 8 per cent of fractures of the humerus Delayed union and non union occur more often in the shaft of the

humerus than in any other long bone

All of the author's fracture cases are inspected daily At intervals the splints are removed and the soft parts are massaged. The author believes that this tends to prevent non union by improving the circulation. It also prevents pressure damage to the soft parts with atrophy of the muscles and gives an opportunity for early presive motion of the joints HEARY II RITTER M D

Schwartz A Fractures of the Humerus with Im mediate Radial I arriysis (Les fractures de i hu mérus avec paralysie radirle immédiate) Bull et mem Soc nat de chir 1926 lit 533

In a case of fracture of the shalt of the humerus with immediate radial paralysis Schwartz waits until the fracture has completely healed before he under takes the repair of the nerve upless the fracture it elf requires surgical intervention. His rea ons are that the paralysis is frequently due to a contusion which is recovered from spontaneously and that if the paralysis does not disappear pontaneou ly op eration for the repair of the neive is very much easter after the healing of the fracture. The one exception to this rule is made when the paralysis is due to an impaction of the neck at the site of the fracture In such ca es the nerve should be liberated at once Such impaction is rare however and can be differentiated from a simple contusion by the s) motoms

In the discussion of this report Critotiat MOUCHET DLIARIFR and LAPOINTE vigorously opposed the policy of Schwaitz Immediate explora tion was advocated as the only safe method of establishing the extent of the nerve injury

I THRENCE JACQUES M D

Fractures of the Elbow and Their Blanco J L Treatment (I racturas de codo y su tratamiento)

Clin y lab 1925 vii 18,

The author reports fifteen cases of fracture of the elbow which he has treated and illustrates his re port with a number of roentgenograms

Supracondy lar fractures should be treated as soon as possible hefore cedema develops to a sufficient degree to interfere with reduction Roentgenograms are and pensable to determine the type of the frac ture and whether reduction has been complete

The best position in which to retain fractures of the elbow is that of hyperflexion Massage and forced movements of the arm should be absolutely prohibited as they are injurious. The only move

ments that may he allowed are those made by the patient

In operations on the elhow the approach which gives the freest access to the joint is through the olecranon

AUDREY G MORGAN M D

Monod R Trochanterodiaphyseal Fractures (Les fractures trochanterodiaphysaires) Rev de chir Par 19 0 xlv 5

In the Delhet Clinic fractures through the upper end of the femur are classified as follows

1 True fractures of the neck (a) decapitation fractures (b) transcervical fractures

2 Cervicotrochanteric fractures

Trochanterodiaphyseal fractures

The purpose of this article is to describe the dif

fereoces between the two latter types

In cervicotrochanteric fractures the line of fractive follows approximately the autorior intertochanteric line. It always begios on the neck in the trochanteric fossa at the juncture of the neck with the greater trochanter and descends obliquely and medially, ending above the lesser trochanter. It is often complicated his accessory fracture lines. One such accessors line, which is almost always present separates the greater trochanter from the diaphysis Another which is less common separates the lesser trochanter and may lead to confusion of this fracture with the trochanterochanter and may lead to confusion of this fracture with the trochanteroc

In the trochanterodiaphyseal fracture the fracture line hegins on the greater trochanter more or less close to its summit and terminates on the diaphysis somewhat helow the lesser trochanter. A secondary line passes from the primary one above the lesser trochanter and separates the latter with more or less of the diaphysis from the shaft. The primary line does not involve the neck of the futur. The trochanterodiaphyseal fracture is never impacted Below there is moderate over riding and above some separation of the fragments. The displacement is attributed by the author to the abduction of the superior fragment caused by the action of the muscles.

The trochanterodiaphyseal fracture is intermediate between the cervicotrochanteric and the suh

trochanteric fracture

The limb is usually held in abduction a position which may suggest dislocation. With this abduction there is lateral rotation. In only one of the author's five cases was the limb held in adduction. There is some variation in the position according to whether the extremity is fleved or extended. When it is extended the lateral rotation is more marked than the abduction. When the limb is fleved, the diagnosis is more difficult, the condition often being diagnosed as an anterior dislocation. Delhet saws that pain caused by pressure on the greater trochaoter indicates fracture rather than dislocation.

The deformity caused by the fracture consists in protrusion of the upper end of the distal fragment in the trochanteric region due to angulation of the two fragments Ecchymosis is rare In the \ ray examination the region of the greater trochanter should he very carefully examined

The treatment of choice is continuous extension. This may be obtained by the method of Tillaux of Hennequin or by the use of the Delhet apparatus for thigh fractures. With Delhet's apparatus continu ous extension is maintained for five or six days. The appliance is then fixed and the patient allowed to walk. Two patients thus treated were allowed to leave the hospital after three weeks and instructed to come hack for the removal of the splint at the end of five weeks.

In no other fricture of the femur is the prognosis so fivorable as in trochanterodiaphyseal fracture Reduction is easy to obtain and maintain union occurs ripidly by hony callus, and functional recovers is excellent, usually perfect. The shortening varies from 10 to 15 cm M L Mason M D

Sherman, W.O. Operative Treatment of Fractures of the Shaft of the Femur with Maximum Fixation. J. Bone & Joint Surg. 19 6 viii 494

Sherman discusses the operative reduction of fractures of the shaft of the femur from the standpoint of a return of from 95 to 100 per cent of normal function. For such a result, an aseptic technique and a proper armamentarium are essential. The usual aseptic technique employed in laparotomies is not sufficiently refined for open operations on hones

In the fixation of the fragments in the author's cases the fragments are held with Lane or Lamhotte bone forceps, while a vanadium steel plate of Sherman's design is applied with vanadium steel tap screws. The bone plates and screws are never re

moved unless infection develops

Skin traction is seldom used by Sherman in the treatment of fractures of the femur In reduction by closed methods, skeletal traction (obtained preferably with tongs) is the method of choice. It is emphasized that mere correction of over riding or shortering as must be obtained and at least 25 per cent of the fractured fragments must be hought into contact. When this is impossible by closed reduction open reduction is undecated.

If skeletal traction is to be employed full rehance must be placed upon it as open reduction is a dan gerous procedure in the presence of caliper wounds in which there is usually a low grade infection. Should operative intervention become necessary after skeletal traction has been attempted the wound should be left open and treated by the Carrel

method

Open operation should be performed in the first twelve days following the injury because after that length of time it is more difficult and greatly retaruearly bone union with a minimum of callus

In the author's series of more than 1 500 op 1 operations for fracture of the femur the incident of infection was no higher than in ordinary electroperations such as hermotomy

PREDIPICE 1 TO Th

Prince, L. D. Derangement of the Ankle Joint Following Fractures of the Lower End of the Tibia and Fibula. California & Real Med. 1926

Fractures of the lower end of the tibia and fibula are more frequently treated improperly than frac

tures of any other type
As ociated with the Pott's fracture there is fre
quently some posterior lateral displacement of the

astragalus

The treatment should consist in early manipula
tive reduction under anasthesia followed by im

mobilization in a plaster cust.

Physiotherapy may be begun after the third or fourth week and weight hearing after from six to eight weeks. To prevent the developm in of pronated foot the shoe should be ultred by a wedge of

leather 's in thick on the inner margin of the heel

and sole

Malunion in Pott's fractures is a common cause
of severe disability but operative intervention often
gives satifactory results. Correction can be accomphashed by cureiform osteotomics of the loader and

of the tibis and fibula

ELVEN I BERRIEDIR MD

Fiorini E Fracture of the Calcaneum (Contributo allo atudio d ll frattura del calcagnos Chir d organs de mo imento 1926 x 403

Practically the only method by which fractures of the os caleto can be diagnosed is roentern examination. Ely says that in 60 per cent of the cases in which the diagnosis is made from objective examination it is incorrect. A correct diagnosis has become

particularly important because of the new laws with regard to workmen's compensation

In order to make a roentgen diagnoss it is neces sary to know the normal structure of the os calors thoroughly since fractures generally follow the luces of the trabecular I norm includes in his article a diagram showing the arrangement of the there six tems of trabeculae and he describes it in detail. The reentgenogram of the fractured is a calor should all ways be compared with a roentgenogram of the normal.

In cases in which no lessons of the trahecule are, seen special attention should be given to the postero lateral autface of the bone which articulates with the astragalist and to the angle formed by this facet with the posterosupinor surface of the bone. Dis appearance of the angle is, the first and most constant sign of a change in the surface which articulates with the astronghus One lateral rocintgenogram is not enough if there is any doubt, rocitizing grams should be taken in other projections.

should be taken in other projections. The treatment should be directed to vari proventing the tarsalgas that follows such fractures. Once the saume of the fragments is often necessary. The sain incision should be made in such a way that it is not a such as well as the same of the same and the same and the same and the same area. The treatment is not to the same after inconstructed and any luxuition of the astragalist reduced. If it fragments which might give rise to evosiones or exert pressure on vessels or exercise that the same area of the same and the same area. The same area of the same area of the same area of the same area of the same area.

LURLY G MOROS MU

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Babcock, W. W. A New Treatment for Thoracic Ancurism Ann Clin Wed 19 6 IV 933

The author presents an operative procedure for thoracic aneurism which is based upon the hydrodynamic principle that the lateral or wall pressure in tubes containing moving liquids is inverse to the

velocity of the liquid

By performing an end to end anastomosis between the right carotid artery and the right internal jugular vein a short distance above the subclavian vein he substitutes the swiftly moving arterial blood for the sluggish venous flow. The blood from the right common carotid is therefore immediately returned to the right heart, with a by pothetical speeding, of the circulation through the right heart. As a result there is a fall in the intra aneurismal and the general systolic pressure and an increase in the pul monary circulation.

After the operation the substernal pain is appreciably diminished, the aneurismal pulsation is less

and the general circulation is improved

The procedure is presented not only as a method of treating thoracic aneurism but also as a possible means of improving the pulmonary circulation. It is to be studied further with regard to its application in certain stenotic affections of the heart and special types of pulmonary tuberculosis.

DON L HUTCHENS M D

BLOOD, TRANSFUSION

Piney, A The Importance of Hæmatology in Surgery Brit J Surg, 19 6 xiv 9

Some of the commonly accepted deductions from hematology must be modified before they can serve the purposes of the practitioner. An extreme degree of leucocytosis is often seen in cases without pus, and leucoprenia is often seen in cases with large accumulations of pus. The degree of the leucocytosis is not as important as the character of the constituent cells.

As the result of an increased functional demand due, for example to the effect of touc or infective stimuli a leucocy tosis occurs usually with a marked neutrophilia. If the infection is very intense, the formative tissues may be so injured that no increase in the circulating leucocy tes occurs though there will be a relative increase in the neutrophiles, many of which show signs of degenerative changes which occurred before their entry into the circulation Leucocytosis and leucopenia are not fundamentally different processes. Certain toxins may gue use to one or the other, depending upon the concentration of the toyin.

Lymphocytosis occurs after infective processes as a sign of the onset of the reparative proce s Many chronic infections are accompanied by a lympho cytosis The lymphocytosis which occurs in typhoid fever is of interest because, when it disappears, the prognosis is grave Lymphopemia is of the most unfavorable prognostic import An extremely mpho nænia may result from widespread destruction of the lymphatic tissues such as may occur in tuberculosis A marked functional defect of the hæmato poietic tissues often accompanies the great destruc tion of the myeloid tissue resulting from infiltration by numerous metastatic malignant tumors. As the result of a persistent demand on the formative tis sues, such as occurs in prolonged suppuration, there may be also a progressive diminution in the number of leucocytes circulating in the blood

In cases of posthemorrhage anemia the relationship between the leucopoietic and ery thropoietic mechanisms, i.e., between both main constituents of the bone marrow is evidenced. In the blood there are the signs of active replacement of the red blood cells, but at the same time there is a great production of leucopy ties evidenced by a well marked leucopy tosis. Because of the loss of iron from the system in hæmorrhage the regeneration of the erythrocytes is slow. In cases of anemia due to hæmolysis such as occurs in sinke venom poisoning, the regeneration is rapid because iron is present.

Anemia due to injury of the marrow is best ex emplified by aplastic anemia and cases in which malignant metastases invade the bone marrow, in juring part of it and stimulating the adjacent parts

to a greater but less orderly proliferation

Polychromasia and punctate basophila in a blood showing normoblasts in small numbers and a tendency of the leucocy tes to approach normal are of good significance. A similar pictuic, but with the eigns of regeneration much more intense does not necessarily imply that the process of repair will be successful. More often, the prognosis is poor in such a case. A persistently low number of red corpuscles with scanity signs of regeneration, such as absence of polychromasia and of normoblasts is of unfavor able significance. This is true particularly, when there is an associated leucopenia or even a relative lymphocytosis. Samuel Kalin M.D.

Evans W A and Leucutia T The Neoplastic Nature of Lymphatic Leukremia and Its Relation to Lymphosarcoma im J Roenigenol, 10 6 58 407

The authors review the theories of the etiology of lymphatic leukamia. In support of the neoplastic theory they note that the condition responds to radia tion therapy in the same way as lymphosaccoma.

Three c. es of i jmphosacoma are reported in which the mediastinal is ons re ponded promptly to radiation therapy and the cinical picture of lymphatic leukemia developed later. In the two cases which came to autops, it was found that the mediastinum was free from involvement but that imphosacromatous nodules had in aded the bone marrow. The authors draw the conclusion that ill pmphosacroma is transforred into lymphatic feuk. Emilia as soon as the bone marrow becomes involved. Charge II Hercock, M.D.

Simson F W A Study of the Third Agglutinating System in Human Blood J Path & Lactoral 1926 AM 270

In a study of the blood Sunson confirms the observations of others that a third pair of agglutination elements exists in human blood The extra agglutinin γ may be studied quite itadily without the α stance of a pure natural γ serum. Absorbing a Group III serum of the type $\alpha \gamma$ with Group II $(\beta - \lambda)$ cells 1 the most satis factors, method of obtaining a suitable serum.

The yC system either as agglution or its receptor, is present in a large percentage of human

bloods

With the majority of bloods cross agglutination without absorption will fail to demonstrate the presence of the \(\gamma \) C system and its custence makes no difference to the ordinary methods of grouping

The Bestem appears to be present in all bloods A and Care sometimes suppressed. The Carstem when present follows the same distribution as the A in that the against in 15 found in the sera of Groups III and IV and the receptor in the cells of Groups I and II.

SURGICAL TECHNIOUE

OPERATIVE SURGERY AND TECHNIQUE. POSTOPERATIVE TREATMENT

Lemann I I Surgery in Diabetics L. a Orleans If US J to 6 lyrix og

Lemann presents a statistical review of surgery on diabetics, showing the marked increase in the number of operations and the decrease in the mor tality since the use of insulin. The pre operative and postoperative treatment are de cribed and typi cal ca es are reported

From his investigation the author draws the fol-

lowing conclu ions

I Surgery on diabetics has been vastly safer

since the introduction of insulin The postoperative mortality should not be greatly in excess of that of normal persons provided

proper safeguards are observed

- 3 The old fear of surgical operations in the pres ence of diabetes is justified when these safeguards are not observed
- 4 Infection must be relieved promptly in dia betics
- 5 It is highly desirable to prepare the non infected patient by a preliminary dictetic (and insulin) treatment to insure freedom from acidosis and a normal blood sugar level

6 Clo e co operation between the surgeon and the physician responsible for the treatment of the diabetes is essential to success

JOHN J MALONEY M D

On Posture During and Immediately Meyer W After Operation with Reference to General Anæsthesia 1m J Surg 1926 n s 1 63

The complications of inhalation anasthesia are due to the aspiration into the bronchial tree of blood, mucus, or mucopus during or immediately after operations within the mouth and nasophary nx or of gastric contents as the result of vomiting while the patient is still under the influence of the an es thetic

To prevent these complications Mever advocates emptying the stomach and placing the patient in the Trendelenburg position at the first sign of vom

Before the operation is completed the anes thesia should be deepened and the stomach thor oughly washed out. When the patient is returned to his room he should be placed in the Sims position on the stretcher and maintained in that position in bed if the operation will permit it

The development of thrombosis of the left fem oral vein can be prevented by raising the foot of

the bed following operation

HOWARD A MCKNIGHT M D

Bancroft F W, and Rogers C S The Treatment of Cutaneous Burns Ann Surg 1926 Ixxviv 1 Beck, C S and Powers J H Burns Treated with

Tannic Acid Ann Sure 10 6 lyxtiv 10

BANCROFT and ROGERS Death due to burns may be caused by shock or toxæmia Deaths from shock occur within from twenty four to twenty six hours and those from toxamia after from one to three weeks

The toxemia appears to be due to the breaking down of tissue with the formation of primary and secondary proteoses, concentration of the blood, and a marked decrease in the blood chlorides

The treatment of shock accompanying burns con sists in the application of external heat the admin istration of fluids and liberal amounts of morphine,

and blood transfusion

The treatment of toxemia accompanying burns is in large measure the same, but must be continued over a longer period of time. It is very necessary to maintain the body fluid balance by proctoclysis

or hypodermoclysis

The local treatment may consist in debridement In the authors cases the patient is anæsthetized and the area thoroughly cleaned by the removal of all burned tissue and all tissue which is so damaged that it does not bleed actively. A blood transfusion is then given. The wounds are dressed with vaseline gauze

The disadvantages of debridement are that it is a radical procedure with considerable operative risk to a devitalized patient the after treatment is very painful infection is apt to follow, and skin grafting must usually be performed to cover the defect and if this is delayed by infection a scar tissue base may

form beneath the granulation tissue

The tannic acid treatment is based upon the theory that tannic acid coagulates proteins and pre cipitates the poisonous substances in burned tissue thereby preventing their absorption. There is less pain associated with this method of treatment than any other procedure known and the patient is in relative comfort at all times It appears to be the method of choice Since its use, the mortality and the length of hospitalization have been decreased

In the cases of children with circular burns of the extremities caution must be exercised in at tempting to prevent contractures by means of trac tion since pressure necrosis develops very easily Careful manual traction or early skin grafting as

soon as the slough separates is preferable

BECK and POWERS The treatment of burns pro posed by Davidson consists in the application to the burned area of compresses saturated with freshly prepared 21/2 per cent aqueous solution of tannic acid to produce innocuous coagulum of the burned

protein which, when exposed to dry air will form a parchment like surface over the burn This method of treatment lessens the toxamia and pain prevents lo s of body fluids limits the amount of secondary infection produces les scar tis ue than other meas ures promotes general comfort and forms a scaffold of coagulated protein for the growth of new epithe hal cells over the denuded surface

The tannic acid must be freshly prepared Small sections of the wound are opened up for inspection at the end of twelve eighteen and twenty four hours and as oon as the part is found to have assumed a light brown color all dressings are removed and the wound is left exposed to the air carefully protected against mechanical injury and chilling Around the eyes a 5 per cent tannic acid ointment is used. It is essential to force fluids in order to maintain the fluid balance of the body In some ca es blood transfusion is beneficial

The authors have slightly modified this method Instead of using saturated gauze compresses they spray the burn every half hour with an atomizer containing a 21' per cent solution of tannic acid until the surface becomes brown The spray may be used also on the face and around the eyes When blebs are formed they are opened and the epidermis is removed wherever it separates. Exposure to dry air facilitates the tanning and an extensive burn can be completely covered in sixteen bours with the production of a smooth surface in ensitive to pain The crust thus secured should not be disturbed until it separates

In deep burns the crust remains firmly adherent to the underlying tissue. In such cases it is advisable to remove the crust in two weeks and place grafts on the base. If the burn is superficial, the coagulum can be dried in a day but if the burn involves the subcutaneous surface the crust remains boggy for several days

In children a burn involving one seventh of the body surface is usually fatal whereas in adults a burn involving one third of the body surface is

usually fatal

The most important features of the tannic acid treatment are the control of toucity the simplicity of the method and the comfort of the patient

CYRIL J GLASPEL M D

Westhues A Modification of the Thiersch Graft (Modification der Thierschschen Transplantation) 50 Tag d d utsche Ges f Chir Berlin 19 6

Westhues cuts Thiersch grafts twice as thick as usual and then divides them into parallel strips 3 or 4 mm wide By means of an instrument similar to a Deschamps needle the strips are woven through the granulating surface The grafts take in two or three days The granulations on top of the portions of the strips that have been drawn under are then carefully removed so that the entire graft is freely exposed With great rapidity the areas between the strips become epithelialized as is shown by a num ber of illustrations

This procedure is applicable only to flat surfaces and is intended as a supplement to the Braun and Pels Leusden methods rather than as a substitute for them It is emphasized that during the first two days dressings wet with salt solution should be ap plied to the transplants and should be changed at least twice a day

Paser The Use of Arternal Flaps in Plastic Surgery (De la méthode des lambeaux artériels en chirurgie plastique) Paris chir 1926 xviii 167

L ser uses flaps with a very lender pedicle made up of an artery and nerves and a thin layer of cellu lar tissue but no skin. These flaps are sometimes very large and look like large leaves on a lender stem They do not require section later They have an excellent blood and nerve supply The pedicle can be early twisted to 180 degrees without inter fering with the circulation, whereas when one side of a skin pedicle is compressed and the other side is stretched the circulation is obstructed

The flans described are excellent for atomic chrom cally injected wounds. In the face where they are particularly valuable the uperficial temporal artery or its accending branch may be used. In the body there are many arteries which may be employed One of these is the inferior epigastiic

The artery is carefully located before the flap is cut and a skin inci ion is made over it. Then an incision is made from the right and another from the left passing under the artery so that a wedge is formed which includes the artery veins lym phatics and nerve fibers. The collateral mut not be cut too near the trunk of the artery or the small thrombus which obliterates the collateral may extend into the lumen of the artery and partially obliterate it AUDREY G MORGAN M D

Ceccarelli G Skin Grafts and the Conditions Which Favor Their Taking and Their Vitality (Innesti cutanei e condizioni che ne favorisiono la vitalità e l'attechimento) Arch ital di chir 1926 XV 333

The conditions which determine the taking and vitality of a skin graft are many Some of them are in the graft itself some in the site at which it is implanted and some in the host. The graft must have retained sufficient vitality to resume the hu moral and circulatory exchange necessary for its taking when put in its new position. The vitality of the graft is greatest immediately after it is taken from the donor before the beginning of those necro biotic phenomena of asphy via and defective nutri tion which begin very soon and proceed more or less rapidly depending on the milieu in which the graft is kept until it is implanted

Among the best media which best preserve the vitality of skin grafts are physiological salt solution and Ringer's solution but even better than these is the plasma of an animal of the same or a different The best medium is the plasma of the

animal itself

The volume and form of the graft are important because it is hard to preserve the vitality of grafts beyond a certain size or thickness, and even if grafts which are too large or too thick are implanted immediately after they are taken from the donor it is difficult to re establish the circulation and they are very ant to undergo necrosis

The vitality of a graft depends in part also on the way it is taken and the technique used in its application. Each of the different methods has its special indications. A derino epidermic graft im planted within the granulation tissue has not as yet been used very frequently but gives excellent service

Illustrative cases are reported

The taking of the graft depends to a large extent on the hed in which it is implicited. A successful take is most apt to be obtained if the hed is newly prepared or at least freshened to receive the graft and if it is of such a size that the graft fits it exactly. Absolute asepsis, hemostasis, and postopera tive care according to the technical rules are es

sential

The chief factor in the taking of the graft is the character of the host, that is, whether the host is the same individual, another individual of the same species, or an individual of a different species Autoplastic grafts always take if they are alive and the proper technique is observed Homoplastic grafts take only if the individual differences between the host and donor are reduced to the minimum, as in the case of brothers, or if the graft is endowed with great proliferative vitality like grafts from fetuses or newborn infants When these conditions are not met, homoplastic grafts always fail to take both in experimental and clinical work. Attempts made so far to change brochemical conditions in the host have not been successful but the condition of the graft may be changed by keeping the graft in the plasma of the host for twenty four hours. In this way it is possible to make a graft take in an individual who is not related to the donor or who helongs to a different race Heteroplastic grafts are possible in some of the lower animals but they have always been failures in the higher animals and in man, as have grafts of preserved skin

AUDREY G MORGAN M D

Rieder, W Autogenous Blood Injections in Post operative Pulmonary Complications (Zur Trage der Eigenblutinjekton bei postoperativen Lungen komplikationen) Zentralbl f Chir, 19 6 lim 205

Autogenous blood injections were given in sixty cases according to the technique of Graser. At first it appeared that they had a very favorable effect, but in a series of cases treated without such injections the curves were exactly the same and similar also to those reported by Craser.

The estimation of the effect of the injections is very difficult because varied conditions are iocluded in postoperative pulmodary complications. The course of postoperative pneumonia, however is almost always typical, resembling that of broncho

pneumona After an initial attack of fever of 30 degrees C, there is often a marked drop of a lytte nature, but this occurs also when no injection is given. In other cases three and sometimes eveo a greater number of injections did not have the slightest effect upon the fever or the course of the condition.

ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Nagel The Increase in the Antiseptic Action of Corrosive Sublimate in Acid Solutions (Ueber die Erhoehung der antiseptischen Wirkung des Sublimats in sauren Loesungen) Zischr f Hyg u Infektionskrankh 1926 Cv 495.

On the basis of a series of investigations the author comes to the conclusion that the antiseptic effect of corrosive sublimate like that of other mercury salts, is increased by the addition of rads and acid salts according to the degree of dissociation. Its effectiveness depends upon the mercury and hydrogen on concentration, each supplementing the other. The mercury is effective as a cation and not as an anion of a complex mercury compound.

Accordingly, the statement made repeatedly in texthooks during the last twenty five years that hydrochloric and retards the antiseptic action of corrosive sublimate in the same way as sodium chloride is disproved and the mechanism of action of an acid solution of corrosive sublimate is explained Gass (Z)

Rovida G Experimental Studies with Lewisite (Ricerche sperimentali con la lewisite) Sperimentale 1926 lxxx, 5

The author made a study of the two chlorovanic chloravanes which are most interesting from the point of view of biological action, we chlorovanyl dichloravane (lewiste) and dichlorodivinylchlorar sine. He found that these products, both in a state of fine subdivision (alcoholic solution) and in a hquid state, hydrolyze rapidly on contact with water forming hydrochloric and and the corresponding chlorovolprismic oxid Low temperatures have an effect on the course of the hydrolysis, retarding the end of the decomposition

AUDREY G MORGAN M D

ANÆSTHESIA

Wright, H W S An esthesia of the Brachial Plexus Brit J Surg 1926 th 160

Practically the entire nerve supply of the arm is collected on the upper surface of the first rib, immediately external to the subclavian artery. In the induction of arcsithesia of the brachial pletus the subclavian artery may be adequately protected by a finger placed on its anterosuperior surface. Injury to the pleura is easily avoided if the injection is made as soon as paresthesia is obtained. If this is not noticed the point of the needle must always he

made to impinge on the first rib before any of the solution is injected. The author has at hand a suit able syringe and 30 c cm of 2 per cent and a quan tity of 1/2 per cent novocam solution. Adrenalia is added in the proportion of 3 drops to every 10 c cm of novocain solution used. As a rule the injection is made on the operating table. The needle is introduced at a point 1 cm above the clayicle immediately out side the vein. This spot corresponds to a point I cm above the clavicle in the exact midclavicular line During the introduction of the needle, the anatom ical relationships of the first rib are borne in mind As soon as the needle has pierced the deep fascia it is pushed onward about 15 cm. If the patient is not too sleepy parasthesia is felt. The needle is pushed in until it rests on the first rib and is then gently withdrawn a few millimeters before the novo cain is injected. Finally 5 ccm of the anaesthetic are injected just at the outer border of the first tib to block abnormal branches which may join there

The ½ per cent novocain solution is then injected in a subcutaneous ring around the arm at the level of the deliad in ertion to block the fibers of the cervical plexis. The subcutaneous ring may per haps be advantageously placed a few inches above the upper margin of the incisson whatever the position of the latter.

Brachial plexus block has been found equally effective for all clas es of patients. Its results in children have been very gratifying as have those

of other types of local anasthesia

The method is most useful in major operations about the elbow joint and on the forearm. In operations about the shoulder joint it is difficult to aboth muscle sense in the deltoid and retraction of this muscle sometimes waken the patient. The procedure described has been used successfully several times in operations on the hand but inflittation of the ultima and median nerves at the wins serve equally well.

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Stenstroem W, and Mattick, W L A Study of Skin Reactions After Divided Roentgen Rav Dosage Am J Roentgenol 1926, xv 513

Recently there has been a tendency among radio therapeutists to divide the dose over a given area into several portions distributed over as many days In this way the length of time the patient must re main in an uncomfortable position at one sitting is shortened the roentgen sickness lessened, and the dosage increased If the dose to a given area is to he interrupted, it is important to know the effect of its division upon the skin

To determine this reaction the authors rayed adjacent fields of the same individual. One field was given a 100 per cent dose of ' hard ' radiation at one sitting Other fields received respectively a 120 per cent dose in nine days, a 140 per cent dose in eleven days, a 140 per cent dose in ten days, and a 150 per cent dose in fourteen days The reactions

were about the same or less than those occurring after the 100 per cent dose given at one sitting On the basis of their findings, the authors have plotted curves from which it is possible to estimate

the amount of radiation required to keep the skin saturated after a full initial dose. The curve indicates that g per cent may be given every day, 44 every eighth day, or 50 per cent every ninth day The loss of radiation seems to he dependent upon

the rapidity of growth of the tissue Consequently the findings in these cases cannot be used to predict the reaction of children or cachectic or aged patients CHARLES H HEACOCK M D

The Roentgen Ray Treatment of Grier G W Keloid Am J Roentgenol 1926 xv1 22

Although radiotherapy is generally considered to be the best method of treating keloids, there is little agreement with regard to the technique which is most reliable. Having tried various methods at different times during the last fifteen years, the author has come to the conclusion that the most rehable method is the use of unfiltered radiation regardless of the size or thickness of the lesion This applies only to roentgen ray treatment as Grier has not used radium in a sufficient number of cases to warrant conclusions regarding it

He tabulates thirty nine cases which he has treated since 1914 Of these, sixteen were cured, eleven improved, and twelve unimproved Reference to the table shows the constant improvement in the results which followed the change in the technique from moderate filtration of the rays to none

No treatment should exceed go per cent of an erythema dose and the irradiations should be separated by an interval of from 6 to 8 weeks. In the author's cases the smallest number of treatments necessary was two and the largest number five Grier uses radiation of a quality corresponding to a 7 in parallel gap In the estimation of the dose, attention should be given to the size of the area treated since scattered radiation is of importance when larger fields are exposed

ADOLPH HARTUNG, M D

Russ S and Scott G M The Effect of \ Rays upon the Rous Chicken Tumor Lancet to 6

In experiments with many varieties of malignant tumors other than the Rous chicken sarcoma it was found that after these neoplasms were irradiated with one or two lethal doses of the roentgen rays none of them would grow when inoculated into susceptible hosts On the other hand, similar doses and even larger ones had no appreciable effect on the Rous sarcoma or its virus

It is possible, therefore, that the animal tumors do not contain a virus similar to that of the Rous chicken sarcoma, or that the susceptibility of their virus to the roentgen rays depends upon the tissues in which the virus exists or that there is some sub stance essential to the growth of these tumors, at present unrecognized which is easily affected by the roentren rays ADOLPH HARTUNG, M D

MISCELLANEOUS

Wyman, E T The Clinical Application of Ultra violet Light Boston II & S J 19-6, excv 306

The quartz lamp can he used as a substitute for sunlight and has the advantage that it is available regardless of the weather, it can he used in doors, and the doses can be more accurately gauged. In the cases of infants the treatments are given with the lamp at a distance of 20 in from the surface of the body In the cases of infants with a light com plexion the treatments are continued for two min utes at first and then increased two minutes at each treatment up to a duration of twenty minutes In the cases of infants with a medium dark complexion they are at first three minutes in length and in creased each time three minutes. In the cases of negroes they are at first five minutes in length and increased each time five minutes. Sun haths are given in addition

Rickets is common in children who are seldom ex posed to the direct rays of the sun It can be cured

by cod liver oil and ultraviolet light Spasmophilia is an institutional condition in which

the calcium content of the blood serum is low Ultraviolet radiation has a favorable influence upon the symptoms, and the symptomatic rehel is asso crated with a return of the calcium concentration to normal The administration of from 10 to 20 gr of calcium chloride three times a day in addition to the ultraviolet radiation has been found beneficial

Ultraviolet radiation has a favorable effect also in tuberculosis of the pentoneal, glandular, and osseous types but should not be used if there is a marked febrile reaction in these conditions. In addition to the radiation fresh air, proper nourishment

and general hygienic care are necessary

Psoriasis has shown marked improvement under ultraviolet radiation and futuneulosis also responds to it favorably. In bronchial asthma of the bacterial sensitization type ultraviolet radiation has been followed by a decrease in the frequency of the attacks and improvement of the patient's condition in all respects LIEWILLYN I LEMIS M D

Ferry E M The Therapeutic Effects of Ultraviolet Radiation and High Frequency Currents in Animals Free Roy Soc Wed Land 1026 tix Sert Compar Med so

The author reports his results with electrothera peutic agents in the treatment of animals. The

coats of the animals were brushed up to allow the penetration of the light waves to the skin. As there is a great difference in the thickness of the skin in different species the dosage was regulated accordingly In making the experiments difficulty was experienced in Leeping the animal at a certain dis tance from the lamp

In the author's opinion ultraviolet radiation will prove of great value in certain cases that either fail to respond or respond very tardily to the usual

medicaments

The results of ultraviolet treatment on rickets in animals were the same as in man. Moist eczema and indolent wounds responded rapidly

The treatment seemed greatly to stimulate the growth of the bair but the improvement in the coat was due probably to the improvement in the gen eral health Satisfactory results were obtained also in pneu

monia and catarrhal distemper Chorea responded but probably because of the improvement in the general health

The author has used the high frequency current with good results in paralysis. A number of cases are cited LIEWELLYN R LEWIS M D

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Renaud, A Reflections on Cancer Statistic and Demography Rev med de la Suisse Rom 1926 vlv., 331

Renaud holds that the cancer increase shown by statistics in most countries is only apparent and due solely to hetter diagnostic facilities. In this he dis agrees with the American writers Park, Hoffman, Williams, Bambridge, and others, who, he claims, take into consideration only the absolute total num ber of cancer deaths without going into the details

or analyzing the data

With regard to the influence of civilization, be objects to Hoffman s yiew that civilization breeds cancer. He states that in savige races there are just as many cases of cancer following cbronic irritation, ulters, etc., as among civilized races. Moreover, in civilized countries a great number of cancers are successfully suppressed by medical interventions. Therefore he is of the opinion that the apparently greater number of cancers in civilized countries is due simply to hetter diagnostic methods and observations.

Jorstad, L. H. The Action of Lipoid Solvents on the Organism and in the Production of Cancer J Cancer Research 1926 x 229

When coal tar is injected into tissues there is a

progressive hyaline change in the cells

The action of coal tar and other lipoid solvents may be merely the result of the dissolving of a lipoid substance of the tissue. The process is de

structive rather than constructive

When cancer has once been induced by the coal tar, it grows independently of the tar It has been shown by Burrows that cells grow independently in the cultures when they are crowded together in a small amount of stagnant medium supplied by a sufficient amount of oxygen Embryonic cells begin to grow very quickly, but adult cells grow only after a latent period Stagnation and cell crowding offer an opportunity for the accumulation of a substance formed by the cells in a concentration sufficient to induce growth During this latent period the plasma removes from the cells a lipoid substance—the ergusia-which acts as a normal growth inhibitor Therefore cancer may he merely the result of a crowding of the cells in the tissues and a relative reduction of the blood supply of the mass

The author observed that animals fed on diets varying in the kind and quantity of vitamine content showed different reactions to the coal tar and concluded that Vitamire A is the inhibitor of

growth in the normal organism

The experiments showed that the ergusia removed by the coal tar could be replaced by Vitamine A Cancer is a tissue poor in Vitamine A In collabora tion with Burrows, the author found that cancerous tissue contains no Vitamine A but a large amount of Vitamine B

Coal tar merely draws the cells into a stagnant mass and removes from the tissue the ergusia the normal growth inhibitor, thereby allowing the cells to grow independently and produce cancer

PAUL W SWEET M D

Burrows M T Studies on the Nature of the Growth Stimulus in Cancer J Cancer Research, 19 6 x 230

According to the author, cancer is not a reversion of cells to an embryonic type, as has been widely taught, but the freeing of the cells from forces which hold them together. The same conditions which are suitable for the growth of bacteria and unicellular organisms apply to the growth of cancer cells. Uncellular forms of life abound in the stagnant pool and bacteria in crowded media.

It has been found that stagnation and cell crowd ing are important for the growth of cancer cell, because this growth depends upon the accumulation about the cells of a substance formed by them—the archusa Archusa: a soluble in the circulating fluids of the body, in serum, and in plasma. Function takes place when archusia is raintained at one end of the cell. A cancer cell is a non functioning cell.

On the basis of these facts the author assumes that cancer may be nothing more than the result of a local crowding of cells in the organism and a relative reduction in the blood supply to the mass thus formed.

Cancer may he produced by coal tar, the X rays, radium, ammal parasites, hacteria, inflammatory

processes, and congenital defects

In previous studies, Burrows showed that body cells migrate by liberating a lipoid substance, the ergusia, which is readily absorbed by proteins and lats. Jorstad found that drops of coal tar placed in the tissue dissolve the ergusia and draw the tissue cells to them, away from their intercellular substance and blood vessels. If too great an amount of ergusia is taken away from the cells they degenerate.

If degeneration fails and a sufficient number of cells are crowded together in a stagnant mass, a sufficient amount of archusia may form for growth

Cancerous tissue contains large quantities of the growth stimulant, the archusia. The Vitanine B values vary in the same proportion as the archusia values. Wright has shown that archusia is dialyzable as Vitamine B is dialyzable.

It has been previously shown that Vitamine A inhibits the growth of cells Cancerous tissue con tanns no Vitamine A Cancer and a growing bacterial culture are identical in that both contain no Vitamine A and a high value of Vitamine B In the normal organism the value of Vitamine A is high

Cancer is therefore only the re ult of a local vita min embalance in the organism It may be produced by anything which increases the content of Vitamine B and removes the content of Vitamine A in the thisues IACK, SWEET WID

GENERAL BACTERIAL, PROTOZOAN AND PARASITIC INFECTIONS

Martin L. A Purified Antitetanus Serum (Sur un serum antitétanique punifé). Buil et mêm Soc not de chir 1926 lu 128

With the use of the new purified antitetanus serum late reactions are rare. When the serum is injected subcutaneously anaphylaris never occurs when it is duited with three parts of normal alt solution and injected lowly, repeated intravenous majections may be given without danger. However the intravenous route should be reserved for cases of seruis texture.

As the immunizing effect of antitions is transient nationine. (Ramon) should be employed when a prolonged prophylactic effect it desired as in the arm. This is a torum in this, the toxicity has been destroyed by treatment with heat and formol. In the army, anatomic has been combined with typhoid vaccine to produce immunity to both tetanus and tuphoid.

SURGICAL PATHOLOGY AND DIAGNOSIS

Gurewic N A The Vascularization of Scar Tissue According to the Findings of Microcapillaros copy (Varben asculprisation anch den Ergebnissen der Mikrocapillaroskopie) Verhand! d 16³ russ Chir Kong Viscow 1015 D 130

In a special chamber constructed for microcapal broscopy the author examined more than 137 skim scars. He found that the vacularization of scar tissue corresponding to the normal vascularization of the skin occurred in various ways. He deter mined the central and peripheral ends of an arterole by cutting through it. In wounds the margin connected with the central ends of arteroles is better supplied with blood than the margin supplied by the peripheral ends and therefore the vascularization is more profuse in the former than in the latter. This was true in 28 per cent of the specimens examined In 10 per cent definitely one sided vascularization was found and in 2 per cent there was equal vascul larization to both sides.

The entrance of the blood vessels into the scar trasse occurs either parallel with the body surface perpendicular to it or at an angle with it. In the first case the vessels branch and connect with one another. In the second there can be seen a large point from which thinner vessels run parallel into the star tresse. In the third case the vessels form regular rows of foopy in the scar tissue.

It is evident therefore that the character of the vascularization of scar tissue depends upon the direction of the blood vessels and blood flow in the region of the wound Korkmany (2)

EXPERIMENTAL SURGERY

Milanesi E An Experimental Study of the Biology of Fresh and Fixed Implants of Fishin and Blood Clots (Ricerche sperimentali sulls biologia degli amesti di fibrina e di cosgulo sanguigno freschi of issail 10th 11 di chir 10 6 78 413

In experiments on rabbits Milanesi implanted in various organs or in the muscles clots of blood and of fibrin some of which were fresh and others fixed in 90 per cent alcohol. The report includes detailed protocols of these experiments and colored photo

incrographs showing the results. The author found that it was possible to graft fresh or fixed bits of fibitin or blood clot into paren thymatous organs or into musile. Fresh fibrin and blood clot and fixed fibria were ordinarily replaced quite rapidly by a proliferative vascular and connective tissue originating from the tissues of the bost. Fixed blood clot was generally encapsulared in a connective tissue membrane produced by a reaction on the part of the host and remained un changed for a long time presenting all of the characteristics of an insert foreign body. The fixed blood clot was not penetrated by any newly formed vascular or connective tissue.

The traft of fixed blood clot did not show any direct relation to the collages fabrils of the reactive connective tissue of the host and therefore did not conform to hagocite s theory of the origin of stroma and its independence of vital phenomena. Neither did the results of these experiments support Na gootte s theory of the revisionation of the stroma of grafts of fixed material or show that the final outcome is identical with fresh and fixed implants. The histogenetic has which govern grafts of firsh fibrin or blood clot are the same in their different phases and their final outcome as those governing the repair of asseptic wounds and the organization of thrombi

In the author's opinion it is possible that fre had fixed implants of fibrin or blood clot may prove useful as plastic material in reparative surgery on certain organis and tissues

ALDREY G MORGAN M D

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EDITOR'S COMMENT

THE question of malignant disease of the lachrymal gland and of the nose and para nasal sinuses presents a particularly interest ing problem both from the point of view of nathology and of treatment. The complex nature of such growths and the difficulty of assigning them to definite pathological groups have long been recognized Because of their accessibility it would seem that their presence should be recognized early in the course of the disease and that they would afford a peculiarly favorable opportunity for determining the efficacy of irradiation and other non surgical methods of treatment Four abstracts in the present issue of the International Abstract of Surgley two by Pfingst (p 87) and Strada and Zavalia (p 88) upon tumors of the lachrymal sac, and two by Quick (p 93) and klestadt and Martenstein (p 92) upon malignant di ease of the nose and paranasal sinuses summarize some recent con tributions concerned with this problem Because of the failure of intensive irradiation to control the growth and because of occasional serious roentgen injuries Klestadt and Martenstein rec ommend irradiation in fractional doses. Ouick recommends particularly the use of buried radium emanation in gold tubes - a method which permits both the use of very small tubes and exclusion of the irritating beta rays. This application is supplemented by external doses of X ray or radium or both and later by cautery removal of the irradiated tumor tissue

Codman's resume of the work of the Registr. of Bone Sarcoma and his discussion of the symptoms and course of osteogenetic sarcoma (p. 133) represent some of the helpful results of his cameet efforts to collect and study every reported case of bone sarcoma. The fact that he has been able to study 650 cases indicates not only the magnitude of the task he has undertaken, but also future possibilities in the development of our knowledge of bone tumors. As Codman has pointed out so often and earnestly, the greatest hope fut sources of the successful attack, of the problem of malignancy hes in the co-operative efforts of the entire mechal and surgical profession.

Hors paper upon obliteration of the ureter in spinecological practice (p 129) touches upon an important problem in gynecological surger; Gayet and Peycelons warmings with reference to py-clonephritis as a postoperative complication of prostatectomy (p 131) emphasize a possible serious factor in a condition all ready difficult of

treatment

Codman's observations of the relation of the sympathetic nervous system to skeletal tonus (p 99) and Brechot's report of the results of laminectom in cress of 'idopathic' incontinence of urine (p 98) concern neurological problems of interest and importance. Rolliers description of his method of treatment of Potts diesease (p 1,25) indicates the results that may be attained with heliotherapy applied under suit able conditions.

INTERNATIONAL ABSTRACT OF SURGERY

AUGUST, 1926

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

EYE

Jackson E. Recent Mechanical Injuries to the Eyes Their Examination and Management Northuest Med. 1926 xxv. 138

Jackson calls attention to the fact that the effects of contissions of the eyeball may be unrecognized in a superficial examination because external evidence of grave internal lesions may be absent, and that there may be no evidence of serious trouble at the first ophthalmic examination because such injuries as fracture of the orbit do not immediately affect the eyes. Contusions may cause cataract without rup ture of the capsule, but the opacity may not be noted for months. The examination following a contusion should therefore include inspection, palpation for changes in tension, and X ray examination for fractures and foreign bodies.

Perforating injuries may have few external signs upon which the diagnosis may be made. Small wounds close quickly, many parts do not hleed and the tension may be restored in a few bours. Two diagrams may occur from the same accident, as when a shot passes through one side and out the other. The nature of the missile and the direction from which it came should be determined. The presence or a benee of a foreign hody must he established definitely. Because of the long exposure made so frequently in roentgen ray examinations foreign hodies may not be detected by the X-ray if they are very small. As a rule all foreign bodies in the cyball should be removed as soon as possible. The conditions under which a departure from this rule may be considered are very rare. Very Myscory MD

Durr S A The Operations for Glaucoma Am J Ophth 1926 3 S 1x 17.4

This report was a thesis submitted for the degree of M S in Ophthalmology at the University of Pennsylvania The better known operations for glenomera are compared as to their value in different types of cases, and an attempt is made to determine

the best operation for each type of glaucoma. The conclusions are based upon a survey of the literature

Indectomy trephning indotasis and cyclo distinsia are fully covered while the Lagrange operation peripheral indotomy, indenclesis and cyclectomy are discussed briefly. The use of adminishing flaucoma as compared to posterior sclerotomy is reviewed.

The conclusions drawn from fifty-eight original articles are as follows

No one operation can be used in all cases

2 In acute glaucoma the procedure of choice is indectomy with the use of adrenalin or a preliminary posterior sclerotomy, if needed Trephining or indotasis is permissible.

3 The Elliot trepbine should be used in chronic noncongestive glaucoma especially with contracted fields. Indotasis may be done. Cyclodialysis may be tried first the trephine being reserved for resis tant cases.

tant cases

4 Iridectomy should be performed in glaucoma
due to swelling of the lens

5 Buphthalmos is best combated by trephining or repeated posterior sclerotomies

6 Cyclodialysis should be used in glaucoma due to disease of the retinal vessels and may be done in the cases of patients who bave chronic conjunctivitis

7 Adrenalin has been found of value in ophthal moscopic examination, as a therapeutic agent and an aid in operation

Pfingst A O Neoplasms of the Lachrymal Gland with a Report of Three Cases Arch Ophth 1926 lv 139

Warthm was the first accurately to describe the pathogenesis of timors of the lachrymal gland. The first case of such a timor was reported by Hildanus in 1598. The first authentic case in which a micro scopic examination was made was reported by Becker in 1867.

Warthin's report covers all of the cases in the literature up to 1921, a total of 132 The neoplasms in these cases are described by widely different terms ranging from simple hypertrophy to malignant growths of enithelial and fibrous nature. According to the diagnosis they repre ented forty four varicties of tumor Warthin concluded however that the majority were mixed tumors of endothelial origin identical with the slowly growing mixed tumors of the salivary glands In his opinion these new growths are peculiar to the serous variety of gland structure which is found in the lachrymal and pa rotid glands and a part of the submaxillary glands The proper term for them he believes is endo thelioma

Hashinger also accepted the theory of the endo thelial origin of these tumors but Verhoeff in a re port of five cases stated that they arise from epi thehal cells Greeve who completed the bibliog raphy after Warthin's report classifies them into two main groups (1) mixed tumors and (2) tumors characterized by overgrowths of small round cells in the gland stroma a condition known as Miku licz disease In the first group he places the follow

ing types

Tumors in which the gland tubules have a scant amount of phrous or my romatous tissue some lymphoid tissue some flattened epithelium some prickle cells and olten cartilage which are sur rounded by a rather dense capsule of white fibrous tissue and are usually slow in development. Such tumors are not associated with enlargement of the glands and have never been known to lead to general metastasis They usually occur in adults. After removal they show no tendency to recur

2 Tumors made up almost entirely of myxo matous stroma containing some branch columns of

cells resembling epit beliaf cell

3 Tumors of the cylindroma type which micro scopically resemble adenocarcinomata never con tain cartilage and have little or no surrounding capsule Clinically the eare the most malignant

Mikulicz disease is apparently not a neoplastie growth but merely an enlargement of the gland due

to cell infiltration

The latest and most comprehensive contribution on this condition was made by Lane in 1922 In a very careful survey of the literature. Lane was able to find only 256 authentic case

The author believes that the nomenclature of lachrymal gland tumors should be based solely on their microscopic make up and that the species of the tumor should be determined by the nature of the prototype cell

The clinical course of tumors of the lachrymal gland varies considerably. The majority of such growths develop very slowly in the early stages a long period of inactivity preceding their active de velopment It is probable that the slowness of their growth is due to the dense capsule

These tumors are seen u ually in persons past middle age No doubt they begin earlier but because of their slow growth and their lack of symptoms they are unnoticed until they reach a considerable size and cause exophthalmos. The average size of those that have come to operation has been that of a pigeon's egg hut some were as large as a hen's egg Occasionally there are several maller tumors ad pacent to the large one Most lachrymal gland tumors are nodular and firm In a lew cases a history of early pain has been given Some patients com plain of transitory diplopia and blurning of vision Ultimately vision may become quite delective as the result of astigmatism from the pressure of the tumor on the cornea papillitis hyperamia of the namilla or optic nerve atrophy

A clinical division of the tumors into benign and malignant is impossible because they are practically

all potentially majignant

Larly and complete removal of the entire mass with retention of the eyeball is the indicated treat ment The method of removal depends upon the size of the tumor. In a lew cases in which it is large the Kroenlein operation is indicated. No case of recurrence after the kroenlein operation has been reported The removal of quite large tumors can be effected readily and with little or no deformity through an inci ion along the orbital edge

L L McCoy WD

Strada F, and Zavalia A U \falignant Tumors of the Lachrymal Sac (Contribución al estudio de los tumores malignos del saco lagrimal) Semana med 1925 TXXII 1100

A man of 57 years had noted increasing lach rymation of the left eye for several months. For several years he had had chronie nasal catarrh max illary sinusitis on the left side and mucous polyps in the nasal fossæ. These had been cured by operation but recently the catarrh and nasal polyps had re curred Shortly before the heginning of the epiphora a hard round swelling appeared in the left lachry mal sae and gradually increased in size Pain then hegan in the left lichrymal region and extended hackward involving hall of the head and increasing in severity

Examination revealed in the lachrymal sac a fibrous tumor over which the skin was freely mov able The neoplasm extended backward and seemed to be incorporated with the internal wall of the orbit The lachrymal canal was permeable. The Wasser

mann test was negative

The tumor and lachry mal sac were removed under local anæsthesia. This was not difficult as there were no adhesions except for a short distance to the periosteum of the floor of the orbit. When the perios teum was dissected off, the bone appeared normal

Histological examination of the tumor showed it to be a carcinoma The patient was given one roent gen treatment and then went to another town where he was given one irradiation with radium but re fused to continue the treatment because of the intense pain which followed it. He died of recurrence in the manillary sinus and a metastasis in one kidney about a year later

Only twenty five such tumors have been reported in the literature They frequently follow chronic dacryocystitis There is a pretumoral stage of dacryo cystitis or epiphora a second period in which the tumor is visible and a third period of generalization and cachevia A differential diagnosis from dacryo cystitis is impossible in the first stage and the diag nosis is seldom made hefore the tumor appears. In the majority of the cases the condition has been fatal and in the few in which the operation seems to have resulted in a cure it is too early to determine whether the cure is permanent. The author helieves that roentgen and radium therapy may he effective Al though his patient refused to continue the irradiation treatment, the tumor did not recur at its original AUDREY G MORGAN M D

Nutt A B The Result of Treatment by Artificial Light on Phlyctenular and Other Tuberculous Lesions of the Eye Brit J Ophth 19 6 v. 138

Tuherculosis and rickets have yielded to constant exposure to sunlight when other factors such as the vitamines have been supplied. In cases of phlyc tenules, which occur most frequently in persons with the strumous diathesis those with poor living con ditions and those with a faulty diet treatment with the ultraviolet rays has given good results when vitamines have been supplied in the form of cod liver oil and hypophosphites The exposure to the quartz lamp is at first ten minutes long and then gradually extended to an hour. In thirty cases which have been under observation for a year the which have been gratifying
results have been gratifying
VIRGIL WESCOTT M D

Adrogué, E. Dendritic Degeneration of the Cornea (Sobre la degeneración en malla o en reia de la cór nea) Rev soc argent de oftalmol TO 5 1 33

Fuchs classifies dendritic degeneration of the cor nea as a dystrophic process of the cornea due to disturhance of nutrition It is differentiated from in flammation by the fact that it has no objective signs of inflammation its course is progressive while inflammation, after an acute period subsides, there is no infiltration of leucocytes, and only degenera tive processes, such as fatty degeneration (arcus senilis), calcareous degeneration (rihhon shaped keratitis), or hyaline degeneration (Groenouw's keratitis) are found

Adrogue reports the case of a man 37 years of age who had had attacks of redness of the eye and photo phobia lasting from ten to fifteen days and occurring two or three times a year for a period of ten years His chief complaint, however, was a progressive decrease of vision Lateral examination with ordi nary illumination showed a diffuse opacity of the cornea The slit lamp revealed a network of white lines which were most abundant in the median zone hetween the edge of the cornea and its center The picture of this network was unusually clear

In all of the cases seen by the author there were recurrent attacks of keratitis characterized by photo phobia which was generally intense ciliary and con junctival injection the latter generally not very

intense, pain in the ciliary region extending to the region supplied by the ophthalmic branch of the tri facial nerve, and frontal and hemicranial headache Instillation of fluorescin showed a loss of epithelium in the form characteristic of geographic herpes. These lesions and classical herpetic keratitis cannot be con fused with any other superficial lesion of the epi thelium of the cornea hy one who has had experience with the slit lamp. The lesion is hilateral

The author helieves that dendritic keratitis and Groenous s keratitis are the same condition and that they both follow attacks of herpetic keratitis AUDREY G MORGAN M D

Roetth A On the Question of Phaco Anaphylactic Endophthalmitis Arch Oblik 1026 lv. 103

Roetth says that to prove the occurrence of phaco an aphylactic endophthalmitis in human pathology the following questions must be answered Can animals be sensitized to lens protein by injection into the eye? Is the rupture of the capsule in sen sitized animals followed by local or general reactions? Can own lens protein of the animal injected into the eye or elsewhere cause hypersensitivity?

Krusius Roemer, and Gehh found that intra cardiac or intraperitoneal reinjections of small quantities of different proteins including lens protein after primary injections into the vitreous

caused anaphylactic shock

The results of experiments to determine whether rupture of the capsule in sensitized animals is fol lowed by a local or general reaction have been contra dictory Krusius found very slight anaphylactic re actions while Roemer and Gehh observed no general anaphylavis De Waele sensitized rahhits to lens protein and performed a discission two, three five eight, or twelve days later. He found that the sooner the discussion was performed after the injection the stronger the reaction Verhoeff and Le moine reported marked ocular reactions after dis cission in four of seven guinea pigs which were sen sitized with one subcutaneous injection of lens pro

In experiments to determine whether own lens protein of the animal injected in the eye or elsewhere can cause hypersensitivity Uhlenhuth and Handel and later. Mita succeeded in provoking anaphy lactic shock in guinea pigs which were sensitized to their own lens protein Krusius observed slight ana phylactic symptoms in guinea pigs after the intro duction of lens fragments from guinea pigs into their anterior chambers or the performance of discission first on one eye and later on the other Roemer and Gebh were unable to obtain auto anaphylaxis in any Experiments have shown that hypersensi tivity to own lens protein can he produced only hy giving several injections of large doses of homologous

A summary of the results of experiments on animals with homologous lens protein therefore shows that endophthalmitis phaco anaphylactica is not proved

In conclusion Ruskin emphasizes the importance of the role played by maxillary sinusitis in the production of nasal obstruction chronic largingitis, and

bronchitis in children

MITHOPPER cites the fact that while it has been known for many years that nasal polypa are an extension of a primary disease in the antrum hyper plasia of the antrum without extension of polypin into the nose has not hen recognized very often He describes a form of hyperplastic disease of the antrum in which there are few if any pathological changes in the nasal mucosa namely, primary by rerolastic mavullary sinusitis

Hyperplastic maxillary sinusitis is of the following

four types

Antrum hyp rplasia with extension of polypi into the nose combined with suppuration

Antrum hyp rplasia with extension of numerous polypi or a solitary polypi nto the nose hut without

a purulent discharge

Hyperplasia of the antrum without extension of polypi into the nose and with or without mild pathological changes in the nasal mucous membrane and the other sinuses (primary hyperplastic maxillary sinusitis)

Hyperplasia of the recess s of the antrum only

(recess hyperplasia)

Following a discussion of the pathology and symp toms the author draws the following conclusions r Maxillary sinus hyp rolasia was always found

when an extensive nasal polyposts was present
2 Hyperplasia of the antrum may be present

many years without causing symptoms referable to the antrum

3 The failure of the removal of pathological changes in the nose to give relief should direct at tention to the antrum

4 Hyperplastic ethmoiditis of a mild type may be associated with gross hyperplastic changes in the

maxillary sinuses
5 The roentgenogram will be found of aid in
arriving at a conclusion as to the advisability of ex-

arriving at a conclusion as to the advisability of exploring the aptrum 6. An exploratory opening is often the only means of determining the presence or absence of hyp r

plastic changes within the cavity of the antrum
7 Hyp relastic changes in the antrum are pr s nt
more often than has h en hitherto suspected

8 If the possibility of antrum hyperplasa were always borne in mind and the cavity investigated before the performance of an intranasal simus operation the results of intranasal sinus surgery would be more satisfactory A R HOLLENDER MD

Alestadt W and Martenstein II Combined Operative and Irradiation Treatment of Cancer of the Nose and Accessory Sinuses (Die kombi nierte operative und radiologische Behandlung der Nasen Nebenhoehlenkrebse) Beste z klas Cher 1025 CVVIII 626

The authors report upon fifty eight cases of malig nancy of the nose and accessory sinus s seen during a penned of fifteen years. Most of the patients were between so and 60 years of age. In forty mue cases the neoplasm was a carcinoma and in nine a sarcoma More than half of the patients complained of corpus with nasal obstraction. In 36 a p. r cent. polyps were found. Nasal polyps and internal nasal cancers hoth follow chrone irritation of the nasal mucosa. The antrum of Highmore and the anterior portion of the ethnicid hone always contain pus.

The treatment requires (r) radical removal of the growth (2) simultaneous radical op ration on all the diseased accessory sinuses (3) irradiation In ternal cancer occurs most frequently in the upper part of the nose Th refore the best incision for ex posure of the operative area is the Weber incision for resection of the maxilla which is carried upward along the supra orbital margin along the lines of the Killian incision The facial wall of the antrum of Highmore, the lateral wall of the nose with the aper ture the anterior wall of the sphenoidal sinus the orbital wall of the frontal sinus and the mucosa of all the accessory sinuses are removed and the tumor masses curetted with a sharp curette. Of the hard palate which is ess nital for nutrition and speech no more is removed than is absolutely necessary. The dura and the structures of the pterygopalatine fossa are critical sites. The suture of the wound is confined to the eyebrow the ala nass and the vestibule of the mouth in order to leave a portal of entry for the subsequent arradiation

Of the fifty eight cas s thirty eight were subjected to irradiation treatm in consisting of rontgen or radium irradiation alone and in combination. Sitty four op rations were done on these fifty eight patients with a total mortality of 7 8 p r cent. The dangers of the op ration anisath sai kamorthage, and meningitis may be decreased by conduction anisaths and another trigenizal nerve and the ethionoidal nerve injections around the blood vessels to secure anisma, and good drain

age of the wound secretions

Tour of the patients may be considered as cured after freedom from recurrence for five years. One patient had a local recurrence for five years. One patient had a local recurrence for five years. One patient had a local recurrence five years of the patient years. The majority of the recurrence five years from the majority of years of the high years. The majority of years of the five years from the second but when they occur they are found most frequently in the bones. The advisability of removing the lymph nodes is difficult to decide because of the tarnty of metastases and the fact that recurrences are usually local. Since the glands serve as the requestion it seems wise to operate on them only after a few days.

With regard to irradiation treatment it is still un decided whether the administration of relatively small does at intervals of several weeks over a long period of time or intensive irradiation is best low ever the failures of intensive irradiation according to the method of Wintz and the occasional sensor or nigen injuries resulting from this method justify irradiation in fractional doses. The authors have obtained the best results with doses of one third to two thirds of the skin unit dose given with the use of a filter of a or 4 mm of aluminum. Griessmany (Z)

Quick, D The Use of Radium and the \ Raysin the Treatment of Malignant Diseases of the Para nasal Sinuses Surg, Gynec & Obst 1926 du, 46

The proper application of radium and the \ rays in the treatment of malignant diseases requires an accurate knowledge of the histological structure of the tumor, its size and shape its relation to adjacent structures, and the presence or absence of in fection

The peculiar anatomy of the paranasal sinuses which favors inflammatory processes is an important factor in the causation of malignant growths in these structures. Inflammatory processes after the normal type of tumor growth and influence unfavorably the protective cellular reactions in the surrounding normal tissues.

Quick believes that the complex embryology of the parts under discussion affords an opportunity for tumors to originate from numerous developmental anomalies this explaining the wide range of tumor

types found

The most common malignant growth occurring in the sinuses is carcinoma of the maxillary antrum Squamous cell carcinoma usually represents a second ary in asson of the antrum, but may arise there primarily from lining membrane cells altered or flat tened by a previous inflammatory process

Certain basal cell tumors round cell carcinomata of atypical structure and sarcomata of various types also occur at different points in the paranasal sinuses As a rule, such involvement is only a part of a more

generalized disease

When the cases are seen by the surgeon, the condition is almost invariably far advanced, having heen considered inflammatory too long. Biopsy or earlier surgical exploration of the sinuses would result in the saving of many lives.

Radium and the X tays have proved of value in the treatment of malignant tumors of the paranasal sinuses. In the experience of Quick, a combination of surgery and irridiation with radium and the N rays gives the best results. The physical agents are depended upon to deal with the new growth directly and surgery is used to provide access and drain

Treatment with the \ rays alone is not sufficient to control the growth in the paranasal smuses except, perhaps, in cases of such unstable tumors as lymphosarcomat. The \ rays are employed for external radiation. For direct application to or into the growth radium is the agent of choice. The method depends upon the requirements of the particular case, but the irradiation must be applied accurately and uniformly throughout the tumor and in sufficient amount to produce a maximal reaction compatible with viability of the surrounding normal tissues.

For several years Quick and his associates have employed hare tubes of radium emanation very extensively. During the past year, they have found it possible to prepare gold emanation tubes scarcely larger than the bare tubes or glass emanation tubes. These have all the advantages of bare tubes minus the heta radiation. By means of them it is possible to hup, filtered radium emanation obtain a prolonged intense gamma radiation and avoid the severe in flammatory reaction which always follows the use of the heta rays.

The technique of applying the tubes is described The internal applications are almost always supple mented by external doses of the X rays or filtered radium or both

With regard to the choice of method in removing, the irradiated tumor tissue, Quick states that the use of the scalpel and curette is bloody and necessitates too much manipulation of the tissues. The fold fashioned cautery and soldering irons are clumsy and produce too must heat. Coagulation of the entire area by means of the high frequency cautery, and removal with a curette or the high frequency cutting needle gives the desired result with minimal trauma.

Metastatic cervical nodes secondary to the various types of carcinoma encountered in the paranasal sinuses are treated in the same manner as meta static nodes secondary to intra oral carcinoma that is by a combination of the Nrays, radium, and

surgery

Of roo cases seen hetween 1916 and the present time all but twenty eight were too far advanced for any treatment except palliative measures. In seven of the twenty eight operable cases the eye was re moved and the antrum cleaned out from helow. Of the total group of patients fifty six are known to be dead twenty two cannot be traced and are assumed to be dead seven were treated too recently for the results to be known and fifteen present no clinical evidence of any malignant disease processes after from nine months to eight years.

A R HOLLENDER, M D

MOUTH

Brockbank, E. M. Dental Sepsis and Septicæmia Brit. W. J. 19 6 1, 56

Illness secondary to focal dental infection may arise from root obscesses, from absorption of the alveolar process of the jaws with pyorrhea, and from tartar. In general there are two types of affections caused by dental sepsis—appreval conditions, such as myositis, fibrositis, neuritis, arthritis, pilehi tis anemia and myasthemia cordis, and pyrexial affections such as acute throat inflammation, arthritis hronchopneumonia, and septicæmic conditions

The author believes that in cases of obscure de bilitating diseases an \ray examination of the teeth should he made and all diseased teeth should he extracted

George R McAulir, M D

Quick D The Treatment of Carcinoma of the Tonque Brit J Radiol 1026 xxxx 81

Epidermoid carcinoma of the tongue is one of the most difficult types of malignant disease to treat because of the muscularity of the tongue its rich blood and lymph supply and its mobility the age of the patient and the presence of mixed oral infec

As surgery has not been particularly encouraging even when an almost p rfect technique has been used radium and the \ rays have been employed in

the hope of improving the results

For the primary lesion the author recommends preliminary external radiation with the \ rays or radium packs to inhibit the growth of the lesion and prevent the implantation of tumor cell in pormal

Strict regard should be paid to oral hygiene Quick introduces into the lesion hare tubes 3 by 0 3 mm in size and containing i mc which give 132 me has of radium energy in about a fortnight 10 prevent the irritative and painful destructive effects of the beta radiation he now employs gold capillary tuhes The tubes produce a painful reaction for from four to eight weeks but their use is justified by the end results

If the patient is unable to withstand the radical treatment described milder forms of radiation are combined with surgery Only one cycle is given. If this proves insufficient the prognosis is decidedly unfavorable If an extensive slough seems imminent the external carotid artery is ligated with the lingual and facial arteries under local anæsthesia

Operative measures are advocated also for cancer

developing on syphilitic glossitis In the treatment of cervical lymph nodes the author prefers intensive preliminary radiation fol lowed by urgery. He subjects every case immediately to heavy external radiation over both sides of the neck preferably with radium or if this is economically impossible with the \ ray evidence of invasion is noted a second radiation is given as soon as the skin will stand it As the \ rays act especially on connective tissue and radium acts especially on capillary blood vessels the combina tion of the two produces a more uniform and general ized reaction than either alone. When a node is firm but movable a radium pack is added a complete unilateral surgical dissection is done and bare tubes are buried especially where lymph channels have been severed If the node is fixed surgical dissection is rarely done as the capsule has been perforated Under such circumstances it is wiser to use external radiation alone or to follow with sureical exposure and direct implantation of bare tubes

Of 414 patients treated by the author slightly over 20 per cent were rendered clinically free from the disease and a considerable number were relieved even though their lives were not saved. In these cases which were unselected the percentage of clinical cures was approximately the same as that obtained by surgery in selected cases. Ouick regards the \ rays and radium as valuable additions to surgery rather than as substitutes for it

CLORGE R MCALLERY M D

NECK

Jura \ Hæmorrhagic Cysts of the Neck (Crts emateca del collo) Poli lin Rome 1923 xxxii sez chir sor

Jura reports the case of a 20 year-old woman who thirteen days after her first delivery about two years and a half ago noticed a swelling about the size of a walnut in the lower part of the left lateral cervical region near the supraclasicular fossa. This growth was soft and clastic and covered with normal skin It did not pulsate It increased slowly and progress rely in size but did not cause any pain or other symptoms By the end of a year it had reached the size of a small egg It was then punctured twice about a liter of dark blood heing evacuated Two months later the swelling had regained its former

During the patient's second pregnancy the tumor did not change much in size but after delivery it grew again and there was a pulling pain in the left shoulder on use of the arm Under novocam ands thesia an incision was made parallel with the pos terior border of the sternocleidomastoid. The cyst which lay between this muscle and the trapezius was easily isolated and removed. It was not connect ed with the internal jugular. The transversalis colli artery which was attached to its posterior surface was sectioned

Histological examination of the cost wall showed that it had the structure of a vein wall which had been changed by endophlebitis causing considerable thickening of the intima The cyst was evidently a hæmorrhagic cyst due to phlebectasia of the trans versalis colli Tura suggests that the weakness of the vein appearing subsequent to the pregnancy may have been congenital

Hæmorthagic cysts of the neck are generally lo cated in the lateral cervical supraclavicular, carotid submaxillary or subby oid region between the me dian and deep cervical aponeuroses. They never show true expansive pulsation but if they are connected with an artery pulsation may be transmitted to them

They very rarely cause pain. They are differen trated from solid tumors by their consistency from aneurism by their lack of pulsation from cavemous angioma hy their lack of erectility and from soft tumors and other forms of cysts by the findings of exploratory puncture

The treatment is radical removal of the cyst after ligation of the vessel on which it is implanted. In some cases it may be necessary to remove a section of the vein Adhesions may be present but often a plane of cleavage may be found Methods of bring ing about coagulation by chemical agents are dan gerous as they may cause embolism

AUDREY G MORGAN M D

Harburger, A. An Anatomical Clinical and Roent genological Study of the Normal and Abnor mal Hyold Apparatus in Man (Etude anatomique clinique et radiologique de la paparell hyodien normal et anormal chez I homme). Arch internat de larvigol 1925, VVI 033, 1047.

The hyoid apparatus is formed by fusion of the scond and third branchial arches and consists of a ligament stretched between two bone processes. In the newborn infant it is made up of a short styloid process still containing in its awa a remarkle of Reichert's cartilage, the stylohyoid ligament two of three times the length of the process which does not have any cartilaginous inclusion, and the lesser cothus of the hood bone.

The abnormal form consists of a chain of two three or four bones connected by short ligaments or bony articulations. This form is more common than

is generally supposed

The piece on which the styloid musules are in serted should be called the 'stylohyal segment whatever the length and mobility of the piece which articulates with the temporal bone. The insertion of the stylomaxillary liament is less constant.

The anomalous hyord structure was formerly tound chefly in old subjects because it was discovered by chance at autopsy but chinical and roent genological examinations reveal it in young person. The long styloid process without a trace of articulation which is sometimes found in old persons is different from the hyord apparatus with segments differentiated and articulated. The anomaly is unlateral in the majority of cases and when it is bulateral is rarely symmetrical. It is best explained by heteromorphosis alone or in combination with airest of development.

As a rule the anomalous hoold apparatus remains clinically latent When it does become manife t the chief symptom is painful dysphagia. In the diag nosis palpation of the pharyny is indispensable and should always be practiced before any operation is performed on the tonsils Roentgen examination is also necessary as it is the only method of discovering the condition when it is latent The picture should be taken in profile with the head extended and the ray centered on the angle of the jaw. One picture should be taken on the right side and another on the left The most frequent error in diagnosis is confusion of the condition with a cartilaginous nodule or a cal culus in the tonsil but in the latter case the hard tis sue is found within instead of outside the tonsil and is movible with and enucleated with, the tonsil

Resection of the styloid process always brings about recovery. In spite of the septic condition of the mouth and the great susceptibility of the per phary ngeal tissue the natural route seems to be best for the operation. Audpact of Morean, M.D.

Arnelli, J. R. The Great Importance of the Thy rold in Relation to Certain Varieties of Heart Disease Colorado Med 1926 xxIII 111

Arneill emphasizes the importance of early diag nosis and treatment of thyroid disease to prevent the serious cardiovascular complications resulting from abnormal thyroid activity. Lvery examination should include a careful inspection and palpation of the neck and whin possible, this should be supple mented by a fluoroscopic examination of the chest to determine the presence or absence of a substernal thyroid.

In this discussion the author deals chiefly with adenomata. He states that in a certain percentage of cases there is a definitionassociation between colloid gotter ic simple goiter and the subsequent devel opment of adenomata of the thyroid. There are no innocent adenomata sooner or later such tumors be come toxic, and if they are not properly treated surgically, sinous cardiovascular and nervous discusses results.

The importance of small adenomata of the thy roid as causes of senous cardiovascular disease is empha sized. These tumors are often so small that they escape the attention of the examiner while the cardiovascular symptoms are so overpowering that the treatment is directed toward a failing heart, the true cause being overlooked. In the treatment, operative interference is the method of choice. If the patient refuses operation or is an extremely poor risk, the X-rays or radium should be used.

ARTHUR L SHREFFLER M D

Castex R and Schleingart, M Cholesterluzemia and Galezemia in Thyroid Conditions Their Relation to the Basal Metabolism (I a colester inerica 3 la calcemia en los estados turodeos sus relaxions con el metabolismo basal) Arch argent de enfrem d opar digest 19 5 1 2 1.

The authors report their study of the relation be tween thyroid function and the metabolism of cholesterin and calcium as shown by the content of cholesterin and calcium in the blood in cases in which a diagnosis of hypothyroidism or hyperthyroidism was made on the biss of the bright metabolism.

The findings of these investigations demonstrate that the internal secretion of the thyroid does not influence the cholestern content of the blood in the slightest. The authors therefore conclude that the hypocholesternamia and hypercholesternamia ob s reed in patients with thy roid disturbances depend, not upon the thyroid condition but upon some other condition possibly the influence of the thyroid on the adrenial.

As the calcium content of the blood also was found to be uninfluenced by thy rold dysfunction, the authors conclude that the changes in the quantity of calcium in the blood in thyroid disease may depend upon some factor related to the vagoss mpathetic system

John W Brennam M D

Simpson W M Three Cases of Thyroid Metas tasks to Bones With a Discussion as to the Ex istence of the So cailed 'Benign Metastasizing Goiter Surg Gince & Obst 19 6 da 489

I rom a study of case reports Simpson concludes that the observation of supposed metastases of nor

mal thy roid tissue made by Cohnbeim and by Morns have been widely quoted and have influenced many others to report similar cases. Cohnbeims report of a case of simple colloid gotter with metastass contains abundant evidence of primary carenoma of the thyroid gland. In the case reported by Morns there was no bistological or other examination of the thyroid gland.

In most of the collected cases the diagnosis of benign metastasizing goiter was based upon the clinically benign appearance of the goiter and the benign microscopic appearance of extinated metas

tases

Metastases of thy roid carcinomata vary greatly in the introceopie appearance and may assume the structure of normal thyroid tissue being thyroid adenomata or simple colloid gotter. Such secondary growths may function in the same manner as normal thyroid tissue.

A microscopic examination of the thyroid gland was made in only twenty nine of seventy seven similar cases collected from the literature and in many of the reports areas of undoubted carcinoma were described. Autopsy was done in only 33 per cent of the reported cases.

The belief of some surgeons that these distant metastases represent aberrant thyroid tissue has no

basis in fact

The metastases in cases of so called bengin metastasing gotters show the same stirking predilection for bone that characterizes secondary growths of thyroid origin which show a frank caranomatous structure. The vertebral bodies and the cranial bones are most frequently involved. Pathological fractures of the humerus and femur are common five secons metastases frequently show fluctuations in use during mensitration and pregnancy. Pulsation is a common finding.

Most of the thyroid metastases to bone were diag nosed clinically and roentgenographically as primary sarcomata Metastatic new growth of thyroid prostate breast addrenal or renal origin should be considered in cases of skeletal new growth

The reports of most cases of beingn metastasize ing goiter were published soon after the discovery of the metastases with a beingn microscopic appear ance and before the outcome of the condition was known

Two cases from the University of Michigan hos pital showed osseous metastases of microscopically beingn tissue associated with chinically negative goiters. One was reported soon after operation as instance of metastasis of normal letal thy rod tissue. Both patients subsequently showed chinical evidence of undoubted carcinoma of the thyroid gland and died after eighteen months and two years respectively.

Many cases are recorded in which the micro scopical examination of tissue from the metastasis revealed normal thyroid structure while histological study of tissue from the thyroid gland showed undoubted areas of carcinoma Abundant evidence indicates that there is no such entity as benign metastasizing gotter. The use of the term should therefore be abandoned

JAMES C BRASWELL M D

Blum F Studies on the Parathyroid Glands Their Secretion Their Importance for the Organism and the Possibility of Substituting for Them (Studien ueber die Epithelkoerperchen in Sekret ihre Bedeutung füer den Organismus die Moeglich Lett three Erestres) 1973 Jena Tischer

This monograph is the report of a series of in vestigations made on several hundreds of animals

during a period of more than ten years

The parathyroid glands secrete a hormone in ternally which becomes activated into the complete hormone only outside the gland and then circulates in the blood plasma. The blood cells are free from hormones. During lactation the parathyroid hormone passes into the milk.

Through their bormone the parathyroid glands exert a definite influence on a large number of organs acting as a protective mechanism against a con stantly threatening auto intoxication. When their protective influence over the central nervous system is deficient tetany and occasionally ballucinations occur In the bone and tooth structures parathy roid deficiency is evidenced by retardation of growth and realformations in the blood by a marked de crease in the calcium content of the serum and in the external eye by inflammatory and trophic de generative disturbances When the Lidney is in sufficiently protected there is an increase in the resid ual nitrogen The parathyroid hormone protects also the hamatopoietic apparatus the thyroid gland and other organs

All of the organs so protected are injured when the integrity of the parathyroid glands is destroyed but if the body continues to be upplied by the bormone from a remnant of the parathyroid glands or by protective feeding (milk or blood) repletion occurs in the endangered organs according to their power to attract the protective bodies a power which depends upon their susceptibility to inforcation.

In mature animals reserve substitution products are mobified in the body when the parathyroid hormone is decreased but in immature animals this does not occur In the young therefore any decrease in the function of the parathyroid glands causes marked weakening. During nuising the mother provides the supply of hormone for the child from the protective substances in her mild.

These findings provide a new point of view with

regard to the nature and treatment of certain dis eases STARL (Z)

Iglauer S The Treatment of Chronic Laryngo trachael Stenosis Ohio State W J 1926 XXII 218

Iglauer is of the opinion that stenosis of the larynx is usually secondary to ulcerative processes within the larynx. In adults paralysis of the recurrent laryngeal nerves and ankylosis of the arytenoid

cartilages are other causes The nature and extent of the stenosed area can be determined by direct and \ ray examination

As chronic cannula carriers are more comfortable if they wear a valvular speaking cannula Iglauer has made a cannula that opens on inspiration and closes on expiration Obstructive lesions should be removed and prolonged treatment with metal or rubber dila tors should be given The prognosis for ultimate functional recovery is favorable

JAMES C BRASHFLE M D

Ferreri G Cancer of the Larynx in Woman (Le cancer du laryny chez la femme) Arch internat de laryngol , 1925 TEXI, 897

Cancer of the larynx occurs about six times as often in men as in women Formerly many hulliant results from operation were reported hecause an er roneous diagnosis of cancer was made in cases of syphilitic gummata, tuberculous vegetations, pachy dermia of the larynx, and benign new growths The difference in the incidence of cancer in the larynx in the two sexes disproves the theories of contagiousness and heredity of malignant tumors There is nothing but by potbesis to explain it As the majority of laryngeal cancers occur in syphilities the most probable theory is that syphilitic lesions in men are exposed to irritation by alcohol, smoke, misuse of the voice, dust, and irritating vapors more frequently than those in women

The age incidence of laryngeal cancer is about the same in men and women Forty five per cent of the subjects are between 50 and 60 years of age and 23 4 per cent between 40 nnd 50 years, but the condition has been found as early as the twentieth year

The diagnosis should always be made by examina tion of a piece excised from the tumor since roentgen

treatment seems to bave no effect on spinocellular cancer but is effective on the hasal cell form. Most of the cancers of the larynx observed in women are extrinsic rather than intrinsic

In intrinsic cancer, laryngofissure is the method of choice but if the epithelioma has passed beyond the vocal cord and affected the arytenoid cartilages or the crico arytenoid articulation or has crossed the antenor commissure and invaded the other side, total extirpation of the lary nx is indicated. The author disapproves of hemilary ngectomy because it is associated with the danger of local recurrence and leaves the tissues in a condition of permanent irrita tion due to the presence of a fistula

In extrensic cancer the treatment of choice is radium irradiation preceded by tracheotomy to prevent suffocation. The radium should be applied directly to the lesion by the natural route if possible or through an operative fistula (hyothyrotomy) The author cites Sargnon's case of retro crico arytenoid spinocellular epithelioma in a woman of 72 years of age Fifty milligrams of radium were applied in a rubber container for six hours and then, after tracheotomy, thyrotomy and section of the epiglottis were performed. The patient was alive two years after the operation

He reports also three cases of his own One of his patients died of an inoperable cancer of the larynx The and one recovered after total laryngectomy third recovered after tracheotomy followed by radi um treatment but has been treated too recently for the final results to be known

Ferreri regards roentgen treatment as more dan gerous than radium treatment because it breaks down the tissues The absorption of toxins from dis integrated tissue is more harmful to nomen than to AUDREY G MORGAN M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Harris W and Newcomb W D A Case of Pontine Glioma with Special Reference to the Laths of Gustatory bensation Leve Ray Soc Med Lond 1926 xix Sect Neurol 1

The patient whose case is reported was a 14 year old boy whom Harras considered from the point of view of intellectual ability an excellent subject for careful gustatory examinations. At the time of his udmission to the hospitul he presented a typical pointine syndrome with paralisms of the body amount of the contractive on the right side and of the face on the left used. The time is the face on the left was the chical picture suggested that the lesion was very extensive their being complete right hemi annasthesia. It proglossid paralysis right fifth nerve anasthesia but no parilysis of the motor branch of this nerve and pirital fifth nerve hypes thesia to light touch on the left side.

The patient died about two months after his admission to the hospital following a continuously

downward course

lathologically examination made by Newcomb revealed a tumor growth extending in the left side from the pons to the red nucleus and down to the lower border of the olive with a slight extension across the midline

The authors were interested especially in the disturbance of taste which was complete both in the front and back of the tongue on the right side but on the left ide was apparent only on the front of the

tongue

In Harms opmon this gustatory disturbance is explained by Nagootie's theory that the gustatory nucleus receive their from the fifth nerve and parameters are well as the glossopharynegal and by the hypothesis that the function of the fifth nerve in the phicomenon of taste is the maintenance of common sensition while the nerve of Wrisberg functions that a more specific capacity the two to gether combining to produce the sensation of taste.

fimme W The Glandular Treatment of Piguitary

Tumors and Hyperplasias tilantic M J 1920 XXX 427 Crant F C The Results In X Ray Treatment of Early Pituitary Lesions Atlantic M J 1920

Frazier C II The Surgical Management of Pitul tary Lesions Allania W J 1926 xxx 435

TIME distinguishes between simple hyperplasias of the pituitary and true pituitary neoplasms which he believes can be done by studying the history of the case. For the former he advises whole gland.

treatment given in combination with hypodermic injections of pituitrin other glandular extracts iodides, etc. depending upon the case

CRUT advocates the use of the V ravs and radium in cases of primary tumors of the pitutary gland in which surgical schlar decompression is not indicated immediately to save vision and also as postoperative treatment in cases treated surgically. The cities seven cases with improvement of head-tiche they is unlikely and the general health following such treatment.

FRITER describes his technique for the trans phenoidal approach to the pituitary and advises oper ative interference in cases in which a pituitary adenoma has reached a size sufficient to affect vision. He outlines a very careful pre operative and post operative routine. Leo M. Davidory, M.D.

SPINAL CORD AND ITS COVERINGS

Bréchot Idiopathic Incontinence of Urine and Laminectomy (Incontinence essentielle dunne et laminectomie) Bull et mém Soc nat de chir 1915 li 800

Bit chot has performed six laminectomies for idopathe incontinence of unne and one for halsteria hollow foot. One of the patients with incontinence that she ablow foot and a permanent fewton contracture of the great foe. In none of the cases was there a family history of congenital malformation or nervous disease. In patients were all of normal intelligence. The roentgen picture showed the fumbosacral region normal in only one case. In the others there was a median fissure of the fifth fumbar or first sacral vertebra and in two cases the lammar did not meet on the same fevel and were superim powed at the ends. In another case the fammar were not as long as normal and the vertebral canal was therefore slightly smaller than normal. These were cases of false stima bified occults.

The technique of laminectomy was simple the operation consisting in a median incision dissection of the lumbosacral muscles and resection of the spinous processes and lamine of the first stard fifth lumbar vertebra or both. This is much simple than the laminectomy recommended by Delbet for adults which Brachot does not think should be prac-

ticed on young children

The child with a hollow foot and contracture of the great toe was completely cured. He has not unnated in bed once since the operation his foot is nor mal and the contracture of the toe has di-appeared. The child with a double hollow foot was also greatly benefited. The others were benefited but none of them was curred completely.

A certain amount of caution is necessary in judg ing the indications for operation in these cases since in some of them recovery occurs spontaneously as the subject grows older, and up to the age of 10 to 12 years the roentgen picture of spina hinda occulta is not absolutely reliable.

In the discuss on of this report OMBERTHANE scale that he did not regard the difference in the level of the lamine as of much significance hut believed that he difference was to be ascribed to the fact that as the posterior vertebral arches were shorter than normal they did no' form the usual curve huy approached each other hy the shortest route and were connected with each o her hy a fibrous, layer this realizing in a flattening of the spinal canal in is anteroposterior diameter. He doubt's the wildom of operating for incontinence of urine hut has operated for pin incontinence of fixees and club-foot with good results.

Bezerot replied that Ombredarine was consider ing cases of more pronounced spina hifida occulta than his Brechot found the spinous processes normal in his cases and the fibrous thickening he discovered was in the dural sac there was no fibrous riembrane connecting the laminæ Brechot does no advocate routine operation for incontinence of unne but thinks that when the roentgen picture shows malforms ion of the neural arch or fissure laminec tomy is justifiable — Apper G. Moro w. M.D.

SYMPATHETIC NERVES

Bonan: G Late Results of Perifemoral Sympathectomy in the Treatment of Varicose Ulcer (Risultati Iontam della simpatetomia perifemorale nel trattamento dell'ulcera varicosa) Chie d'or gar di movimer o 19, 21, 369

Bonani reports seven cases of penarterial sympathectomy for vanco-e ulcer in all of which the Isson had persisted for from seven to twenty years and had resisted the usual treatments. The Wassermann reaction was negative. In every instance roentgenograms of the leg showed the bone lesions which have been described as characteristic of severe cales.

The operative technique was that recommended by Lenche. The artery was exposed in the middle third of the thigh beginning at the apex of Scarpa's triangle where the collaterals are tew. The technique is difficult and in old patients with atteroma of the arternes and penarientis great care is necessary. Considerable time is required to ligate the small collaterals. After the exposure of the arters it is not difficult to strip the adventitia for a distance of from 10 to 12 cm.

In all of the author's cases healing occurred by first intention. In no instance was there are secon dary hemorrhage. The immediate results were vergood. Complete cicatrization of the ulcers occurred in four cases and partial cicatrization in two. In one case the treatment had no effect

Re-examination of the patients a year and a half after the operation showed that the complete cica trization which occurred in four cases was perma nen' in oul's one in the others the ulcers recurred after fifteen days, three month, and five months respectively. The result was temporary allo in both of the cases of partial cicatization. Because of these findings and the relative difficulty and danger of the operation. Bonani concludes that the indications for penfemoral sympathectoms for vancoulcer are very limited. Appen G Mores, M.D.

Coman F D Observations on the Relation of the Sympathetic Nervous System to Skeletal Muscle Tonus Ball Johrs Hope as Hosp Balt. 1976 xxxviii 163

In summarizing the literature on the relation of the sympathetic nervous system to skeletal mucle tonus. Comain states that stimulation of the sympathetic fibers to skeletal mucle has violed only equivocal and unconfirmed results. Most observers and that chimination of the sympathetic fibers with preservation of the cerethro-pinal innervation of skeletal muscle has no effect on the muscle tonus and there is general agreement that definitive loss of tone tollows internerence with the cerebrospinal releasure.

In the cat and dog the somatic nerve supply of the toreleg in relation to the thoracolumbar sympathetic outlow offers a unique anatomical hasis for the chimination of one type of innervation without dis-turbance of the other. The first ramus communicans albus leaves the cord with the first thoracic root and the last of the thoracolumbur outflow leaves the cord with the third or fourth lumbar root. The secretors and vasomotor fibers for the forelimb leave from the tourth to minth spinal roots incluive (rarely from the third) the maximal effect being produced hy stimulation of the seventh Stimulation or section of white rame higher than the fourth thoracic caules only secretors or smooth muscle changes in the head (particularly in the eve) Hence the ventral roots of the entire brachial plexus including the first or second thoracic may be sectioned without interfering with the sympathetic innervation to the torelimh whereas ection of the third to the tenth thoracic roots eliminates the sympathetic innervation of the foreleg without disturbing the comatic inner ration

From experiments on thirty nine cats and seven dogs Coman draws the following conclusions

1 Stimulation of the sympathetic innervation to the foreleg fails to cause any tonic reaction

2 Complete removal of the sympathetic to the forcing does not influence the normal development of tone either before or after decerebration

3 Complete removal of the somatic motor supply to the foreleg is followed by total abolition of tone both before and after decerebration

Since none of the conditions essential for proof of the sympathetic innervation of skeletal muscle could be observed the conclusion is drawn that there is no relation between the sympathetic nervous system and the development or maintenance of postural tone in the cross-strated muscle The author states that his experimental results seem in accord with Sherrington soncept of sheletal muscle tonus as simply a postural refux under cere brospinal control. None of the findings indicates the necessity of a distinstitution of elements in tonus such as the contractile and plastic elements postulated by Langelsan and there is no support to the theory of a dual innertation by sympathetic and so matic nerve elements. Wattra & Buyers M D

Bransburg The Histoprehological Changes in the Heart Muscle Following Sympathectomy (Die pathologisch histologischen Vernderungen des Herz muskels nach Sympathektome) Russlaga klus 1935 19 221

The effect upon the heart of a sympathectomy which cuts off the entire innervating cardax perubas not been reported in the literature. The author attemped to solve the problem experimentally by experiments on twenty dogs and twelve rabbits. Unlateral or bilateral sympathectomy was done and the heart muscle extinent at periods ranging from one to one bundred and twenty days. The following conclusions are drawn.

I Unilateral and bilateral cervical sympathectomy in rabbits and vagosympathectomy in dog produce the following changes in the first lew days following the operation dilatation of the blood we seles hypermia ordema intrimuseular round cell inflictation and an initial stage of muscle stration followed by its disperaneous Flase changes and cate a disturbance of the circulation and muscle nutrition and parently mutous degenerations.

- 2 For a longer time-up to the fourth postoperative month-the degenerative changes in the cardac muscle become more pronounced. The grant lation the absence of cross strations and the longtudent fabrillation indicate profound nutritional disturbances and degeneration of the muscle elements. At this stage byperarma and ordema are no longer present.
- 3 After unlateral sympathectomy in the rabbit and sagesympathectomy in the dog the degenera tive muscle changes in the heart are localised according to the innervation. After operations on the left side the muscle changes occur in the neighborhood of the pikes nervine whereas after operations on the right side they occur in the region of the first second and third plauses and after blatteral operations degenerative phenomena are observed very where

4. Resection of the depressor nerve on the left side in rabbits and dogs causes insignicant changes in the wall of the north and in the muscle in the agon of the first and second plexics (seeas supplied by the branch of the depressor nerve). No muscle changes are observed in other parts of the heart

5 The results obtained from investigations following symphotectomy in animals indicate the trophic importance of the cardiae branch of the sympathetic the necessity of interpreting the indications for sympatheticiny in man with greater cate and the fact that resection of the depressor nerve has apprintly the same therapeutic and operative effect as sympatheticiny.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Cinsburg S Pain in Cancer of the Breast Its Clinical Significance with Special Reference to Bone Metastases Am J W Sc 1926 clxxi

Pain is rare during the early stages of mammary cancer. Its presence is usually an indication that the carcinoma has undergone secondary degeneration with reactive inflammatory changes. Deep pain aod radiating pain usually indicate extension of the disease. Skeletal metastases cause pain of wide spread distribution.

The incidence of skeletal invasion in sixty seven cases of breast cancer admitted to the Cancer Division of the Montefiore Hospital, New York City was

74 6 per cent

In the early stages of sheletal metastass the pain may be mild and inconstant with a tendency toward remission and periodicity which particularly in the ab ence of recurrent breast symptoms, may be deceptive to those unfamiliar with this type of invasion

Recovery of function in cases of skeletal metastasis may be due to subsidence of the inflammatory reaction and is only temporary. The diagnosis is made by frequent physical and roentgeo ray examinations.

The author behaves that in advanced cases of can cer of the breast, radiotherapy is more effective than other methods of treatment and suggests as a pro phylactic measure, postoperative radiation not only of the hreast but also of the skeletal regions which are most frequently invaded

WILLIAM E SHACKLETON M D

Richards G E \ Rays and Radium in the Man agement of Breast Carcinoma Canadian M Ass J 19 6 xv1, 358

There is a great deal of evideoce to support the theory that the X-ray sulls cancer cells directly. The cells of the basal cell epithelioma or lympho-sarcoma are usually easily influenced. As the epithelial cell approaches the squamous type it becomes more resistant. A squamous cell epithelioma requires several times the dosage required by a basal cell tumor. In tumors with the cylindrical lorm of cell the margin of safety between the dose necessary to destroy the cancer and that which will distroy the normal tissue is reduced almost to the vanishing point.

Recent experimental work indicates that some, if not most of the effects produced by the X ravs are due not to the direct destructive action of the ravs upoo the cancer cells but to an indirect effect produced in the normal hody cells. It appears that this is somewhat analogous to an immuoity effect.

In experiments on mice erythema doses of rays were applied to one groin and cancer grafts then implanted in hoth the rayed and the unrayed groin A tumor resulted from five of six of the inoculations in the protected area but from only one of the six made in the irradiated area

Heavy destructive doses of the rays produce fibrosis of the lung and destroy normal cells or lower their resistance. A minimum crythema stimulates

normal tissue to resist the cancer cell

The \ rays may be made to cover adequately a much larger area than the quantities of radium which are usually available to the average physician and should be used in the majority of cases for both efficiency and economy.

In all prophylactic treatment the limit of voltage used upon the chest wall or the lung should be 140 kv and over the avilla and supraclavicular areas,

210 hs

In practically all cases in which radium is employed postoperatively the author uses the X rays also. He hinds that three quarters of a full dose of both radium and the X rays can be administered simultaceously

Radium is of value chiefi; in the treatment of ac cessible nodules in which an intense effect is desired in the pre operative treatment of single or multiple small nodules it may be used with the Y rays in the form of surface applications or packs or buried plat num needles of low potency and high filtration. In postoperative cases small skin nodules may be treated by surface npplications plaques, packs, or platioum needles on wax moulds. Nodules in the avilla may be treated with needles or packs. For supraclavicular nodules, the use of packs in conjunction with the Y rays is indicated.

HOWARD A MCKNIGHT M D

TRACHEA, LUNGS, AND PLEURA

Forestier J Roentgenological Exploration of the Bronchiai Tubes with Iodized Oil (Lipiodol) Radiology 19 6 vi 303

After having proved the barmlessness of lipidol imjected into the bronchial tubes of animals, the author 10 conjunction with Leroux, used it in clinical cases and succeeded in outlining the bronchial tree in rocotgenograms to the smallest ramifications. A part of the oil is expectorated soon after its injection but most of it is absorbed gradually and climinated in the course of several weeks.

Lapodol may be introduced into the bronch by transglottic lojection with the aid of a long curred catheter by the subglottic method which requires puncture of the intercricothy road membrane or through the hronchoscope or lary ngoscope

Before its injection intratrachealanasthesiaisin duced with novocain solution. From 20 to 40 c cm of the oil warmed to body temperature, is then allowed to gravitate into the part of the lung under investigation the patient being placed in such a position that the part to be studied to as low as pos sible Papid exposures made in different po itions or stereoscopically immediately riter the injection record the localization of the oil and any patholomical changes present. No more than one or two lobes of the lung should be explored at one time. The indica tions for the method are the following

1 Cases in which a deviation stricture or other abnormality of the traches is suspected

2 Cases with a long history of pulmonary dis turbance and chronic expectoration in which the diagnosis between phthisis and bronchiectasis is difficult

3 Cases in which the presence of a cavity in communication with the bronchi is indicated by i omica

4 Cases of thoracic fistule of unknown origin 5 Cases in which clinical laborators and ords nary I ray examinations do not lead to a certain diagnosis

The method gives valuable information by out lining the traches and brought showing obstructions from pressure due to intrathorica tumors and localizing cavities in communication with the bronchial tubes but its greatest value his in the diagnosis of bronchiectast. Whether this condition is of the cylindrical or accular viriety it is easily demonstrated

After therapeutic pneumothors a exploration with lipiodol may show whether an a therent part con tains lung or is merely membrane. It serves also to

control the amount of lung ollapse

In more than 100 injections no severe accident has occurred The method is contra indicated however in the cases of febrile tuberculous patients and after hamoptysis its use should be delayed for several day. In cases of pulmonary gangrene and anaerobic injection subglottic injection of jodized oil is madyr able

Though the procedure has been employed mainly as a diagnostic aid it has been followed occasionally by marked improvement in the clinical course of cases of bronchicctasis and lung cavities. In some instances the profuse expectoration has been decreased for months MOLPH HARTLAG M D

Moller P F and Von Vagnus R Investigations of Bronchial Affections by Means of Iodine Preparations Jodumbria and Lipiodol med Scand 192, lam 174

The authors have injected jodized oil into the bronchi in twenty three cases Distinct roenteeno grams were obtained but in not all of the cases were the bronchi filled Lipiodol Lafay a thick vellowish oil with an iodine content of o 54 gm per cubic centimeter has no local irritating effect and is absorbed in such slight amounts that it produces only a very

mild todism. In most cases the authors used todum bem which is as pure and as well tolerated as lipiodol more fluid easier to inject, and produces a better shadou

In the cases of patients with a tendency to cough a teaspoonful of a 1/3 per cent solution of syrupus code ser fortior is given one half hour before the injection Local anaesthesia is induced by swabbing the pharenx and lars ny three times at intervals of five minutes with a 20 per cent solution of cocaine containing a ies drops of 1 1 000 adrenalm and syringing the lary ny and the upper tracheal mucous membrane with 32 c cm of this solution For the oil injection a 5 c cm lary ngeal syringe with a cannula attached is used. The cannula is 15 cm long and has a caliber

The cannula guided by the lars ngoscope is intro duced through the rima glottidis and the oil heated to 37 degrees C is slowly injected along the anterior tracheal wall The patient hreathes deeply and quetly and insofar as possible the injection is made during inspiration. The quantity estimated as neces saty to fill one lung is between o and 30 ccm The injections usually require from three to five minutes

The iodized oil flows readily in the bronchi prob ably because of the heat of the body During and immediately after the injection the oil is guided to the part of the lung to h studied by placing the pa tient in the proper position When the patient coughs or retches the oil tends to escape into the respondances and stomach

The lung bases are injected with the patient seated and learing toward the side of the lung to be examined for the middle and upper lobes the in rection is made with the patient sitting on a couch the foot of which is elevated. Immediately after the injection he is placed on the affected side head down ward Rolling the nation' forward and hackward on the involved side helps to fill the bronchi

Immediately after the injection a transitory truche'l rile is judible and coughing is apt to occur The nations is urged to suppress coughing. A few deep breatl's will usually overcome the irritation The next susection may then be given No dyspacea or other disturbance of importance has been noted

The day after the injection expectoration is often considerably increased but in a few days the sputum u nally falls below the previous quantity. The first trace of sodine appears in the unne after about ix hours The excretion reaches its maximum in (went) four hours and then gradually falls and after six dus di apprats

In the cases reported there were no unfavorable secondary reactions with the exception of a fever of 38 deg ees C in one case and cory za and head, the in another If the cannula used for the injection is too

short the oil is apt to enter the asophagus Insection of the oil by puncture of the crito

thy road membrane is associated with danger as it has been known to cause the formation of .. hamatoma on the po terror tracheal vall penlary ngeal ordema and detachment of the tracheal mucous membrane

The use of a bronchoscope in one case was of no special value and caused discomfort

The roentgenogram should be made as soon as possible after the njection of the oil After from twenty to thirty minutes the picture of the bronchial tree becomes blurred as the result of ejection by couching and absorption

The method described is of value to obtain in formation with regard to anatomical variations in the bronchi, certain pathological changes in the bronchi and lungs which are not shown by ordinary coentgenograms dilatation of the bronchi and alve oli fixtule with possibly a bronchial connection the location of the cavities, and the extent of the militrations.

The authors have seen beneficial effects from 10 due of in a case in which the results of routine todine therapy over a long period of time were in satisfactory. Indine can be given in considerably larger doses in oil without risk of unfavorable secondary reactions.

Pleural injections of doses as small as from 1 to 2 c cm in cases of pleurisy caused long continued rises in the temperature

WALTER C BURKET M D

Packard G B , Jr Empyema in Children Colo

With regard to the treatment of empyems in children, the only surgical measure indicated during pneumona is the aspiration of fluid to relieve pressure on the heart and opposite lung. The mass thesia of choice is local anasthesia but introus oxide oxygen an esthesia induced by an expert is very satisfactor. Ether is to be avoided.

The closed method of treatment was used in twenty five cises the time of drainage averaging twenty seven days, and the open method (in bresection) in five cases the time averaging fifty four days. The closed method has many advantages when carry full after care can be given. The after treatment consists in trigation of the empy ema cavity with Dakin solution twice daily and regular aspirations of the accumulated secretions at intervals of two or three bours with repeated injections of Dakin solution.

There was only one death Of the complications on this media was the most common and acute nu phrits the next most common. There was one case each of invostits, endocarditis, erysipelas, chicken pox, meningitis, and subphrenic abecess

RALPH B BETTMAN M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Koontz A R Muscle and Fascia Suture with Relation to Hernia Repair Surg Greec & Obst 1926 xlin 22

In the dog the internal oblique muscle and Poupart's ligament unite firmly when they are brought into apposition by suture even when considerable tension is exerted on the sutures

The formation of a raw surface by the resection of a small strip of the edge of the internal oblique tend. to make the union firmer than usual

When the fascia lata of the dog is sutured to the underlying muscle these structures unite firmly provided the intervening layer of the arealar tissue has been removed

Microscopic sections show that this union of muscle to fascia as accomplished by the growing to guster of the connective tissue fibers of the plane abest of fascia (Poupart's ligament or fascia lata) with the fibers of the epimysium perimysium and endomysium.

GASTRO INTESTINAL TRACT

Handek The Rehability of the Gastric Niche in the Diagnosis of Ulcer (Jur Frage der Verlaesshehken der Mageunische iuer die Ulcusdiagnose) Foriteir a d Geb d Roenigs (straßen 1925 xvon 36 651

In the recent iterature the reliability of the gast in niche in the diagnosis of ulcer has been questioned. Haude's regards it as an entirely reliable sign of uffer when it is associated with the complete character istic syndrome. The diagnosis is certain however only when the ufcer is situated in the middle portion of the stormal.

Haudek discusses a few cases in which even about an uter is not found at operation, such at least may be present. Not uncoramonly an uter is overlooked during operation. When the findings are apparently negative the gastrocoles omentum should be split and the posterior wall of the stomach examined.

Mention is made of cases reported by Simon and Altschul in which an apparent niche was produced by processes outside the stomach such as athesions evertuge traction on the serous side of a healed utcer Haudek, calls attention to the dangeotie mestake in these cases and interprets the picture as a typical coan tracts filling of the duodenoppium flexure within the gastness shadow. The error is attributed to the fact that because of his weakness the parient was not examined in the standing position. If he had been examined in this position the gastness and mixestand shadows could have been separated by pressure Haudek denies the pressure of a miche also in Alt

schul's case in which a niche was simulated by a tu mor in the tail of the pancreas with a focus of calcification

Serious difficulties arise undoubtedly in the preserious of a discriticulum of the duodenojejunal flexure. In this condition as in cases of true gastricdirectic tha simulating inches mistakes may be made by even expended examiners.

With regard to reports by Reiche Petren and Edinger the author states that niches are not pro trusions and that there is no permonitory symptom of perforation Perforation is extraordinarily rare in niche formation because of the adhesions around the niche

It is easy to avoid mistaking a niche for an atypically situated dome of the left colonic flevure and for a pseudo niche in the angle which is nothing more than a normal hulging of the lesser curvature be theen two powerful peristally constructions.

The question as to whether a differentiation be tween ulser and carenoma is possible Haudel, answers affirmatively with regard to primary car trooms situated in the desconding portion of the stomach but admits that it may be uncertain when an ulcer show smilgnant depeneration. He includes in his article a table of the roentgenological differences between the two lessons. It is admitted that in certain cases the differential disgnoss was not easy but to show that a correct diagnoss was made eventually. Haudels reports statistics demonstrating that a carcinooma was meet from when a diagnoss of ulcer was made and an ulcer was never present when the diagnoss in a carcinooma. Roonstrutte (Z)

Bufalini M Rational Surgical Treatment of Gas tric and Duodenal Ulcer (Sal trattamento chu urgeo razionale dell' ulcera gastrica e duodenale) Arch etal di chir 1925 xiv 641

Bufahm reviews the results of the various methods of operation for alter from simple gastro enterostomy to the most extensive resections and concludes that there is no method of treatment that furnishes an absolute guarantee against recurrence or the de velopment of peptic ulter

When resection was first performed numerous statistics were published which showed a much lower percentage of peptru direct safer this operation than after simple gastro enterostomy but as the late results have become more evident the difference is not nearly so great

In the attempt to prevent recurrence and peptic ulcer surgeons have passed from sample resection of the pylorus to resection of the antrum and then to subtotal and even total resections of the stomach with the idea of eliminating the hydrochloric acid which is supposed to be the cause of peptic ulcer

But you Haherer found peptic ulcer in two persons in whom extensive resection had brought about com-

plete absence of free hydrochloric acid

In view of this fact and the further facts that extensive resections have a mortality considerably higher than that of gastro enterostomy that they suppress not only the hydrochloric acid but also other necessary constituents of the gastric secretion and that they often cause serious disestine disturb ances Bufalini regards the simpler and more con servative operation as preferable unless there are special indications for extensive resection

AUDREY G MORGAN M D

Sole The Indications and Technique of Gastrec tomy (Indicaciones y técnica de la gastrectomía) Irch argent de enferm d apar digest 19 5 1 196

In describing his method of performion gastrec tomy the author makes no claims to originality but states that he has perfected the pre operative and postoperative care of the patient and his operative technique to such a point that the mortality of the operation has been reduced close to that of a simple gastro enterostomy He therefore feels justified in suggesting a further widening of its field of indica tions

With regard to the pre operative care he discusses the lowering of hypertension, the use of tonics digalen, polyvalent vaccines physiological saline solution glucose and insulin lavage oral and dental care breathing exercises and blood transfusion

Following the administration of morphine and scopolamine local anæsthesia is induced by the injection into the gastrohepatic omentum of 10 c cm

of I per cent novocain

The operative technique is shown in ten illustra Complications discussed include hepatic dysfunction acute gastric dilatation and partial occlusion of the orifice of anastomosis hy spasm malposition and traction. In the author's cases these complications are rare

The most important part of the report is the dis cussion of the indications for gastrectomy Gas trectomy is now considered the operation of choice

Gastropylorectomy is indicated in all cases of ulcer of the lesser curvature both pyloric and juxtapy loric in which the process is limited the inflamma tory innitration is not too extensive the lesion is not too firmly adherent to the pancreas and the general

condition is not unfavorable

Sole performs it also for ulcer at the point of gas tro intestinal anastomosis (gastrojejunal ulcer) and in cases of duodenal ulcer. In cases of diverticulum of the duodenum in which exclusion of the duodenum is desired, an antropylorectomy is preferable to simple exclusion It is of advantage also when in cases of supramesocolic or inframesocolic stenosis of the duodenum with dilatation difficulty is experi enced in effecting a satisfactory duodenojejunostomy

Contra indications to gistropylorectomy in ulcer are

I Hæmorrhage In calles with hæmorrhage, oper ation may be considered only when there is repeated bleeding or the pulse is not above 100 and the ten sion is good

2 Inflammatory conditions When inflamma tion is present it may be prudent to await regression of the process and a more favorable condition before operating

3 Perforation into the free peritoneal civity eight hours previously. In cases of perforation into a closed cavity with perigastritis it is well to wait at least sixty days before doing a gastrectomy

With regard to the treatment of cancer the author urges a radical procedure and favors an exploratory laparotom, in order to get the patient operated upon early enough for radical resection

JOHN W BRENNIN M D

Eastmond C Gastro Intestinal Infection Its Roentgen Manifestations Brit J Radiol 1926

Roentgenograms of the stomach frequently show usually on the lesser curvature, immediately hehind the pylorus more or less localized filling defects which are manifestations of localized infections These defects are seldom over 11/1 in in extent. The infections are characterized by congestion, round cell infiltration, and fibrosis The affected part shows minute points of harium retention or local areas of exaggerated barrum density or presents a rigid tubular aspect with a change in the peristaltic waves

Non ulcerative deformities of the duodenum are usually considered to be the result of adhesions secondary to pericholecystitis but the author be heves that infection of the duodenum is commonly coincidental with infection of the gall bladder and that the changes noted in the roentgen examination are due to changes in the duodenal wall itself. Ad besions may be the result of a periduodenitis as well as a pericholecystitis The roentgen findings are in constant irregularities of form due to the chronic round cell infiltration and fibrosis When the in fection involves the second portion of the duodenum the rugal markings may be obliterated constrictions may occur or the emptying rate may be changed

Infection in the terminal ileum may produce rigidity and a change in the motility of the part which is demonstrable roentgenographically rugæ may be flattened and there may he a variable irregularity of form and contracture of the lumen The pathological basis is the same as that in the stomach and duodenum Incompetency of the ileocecal valve is a frequent finding because the sclerotic condition prevents proper accommodation of the parts for closure of the valve

In the colon infiltration and fibrosis incident to chronic infection lead to loss of elasticity and ir regularity of contraction The sigmoid is involved most frequently The author believes that in certain cases the formation of diverticula is an extension of the infectious process

variety which is more acute is destructive and ul cerative. The \ ray examination reveals gastric hypotonicity and intestinal hypermotility principal sign of ileocæcal or crecocolic tuherculosis is the progressively increasing intolerance of the cæcum to any content. In the authors cases with ulceration this was demonstrated by fluoroscopic observation and palpation The only other case in which it was noted was a case of retroperatoneal sar coma which had raised and displaced the excum

The authors report five cases in which the diag nosis of cacal involvement was made from the \ ray findings In these cases the cacum was removed When the diagnosis can be made from the clinical symptoms the condition is usually beyond operative relief The evidence of gross pathological changes in the bonel before its resection was slight. In two cases only the appendix showed gross evidence of disease but in two others there were no significant changes in the appendix. The authors reject the theory that the appendix is the first intestinal lo

calization of the disease

In cases of tuberculoma or the hyperplastic type of intestinal tuberculosis surgical removal is often indicated to rule out malignancy or relieve obstrue tion. The results of resection of the cæcum in these eases are usually very satisfactory as not infre quently the patient is free from tuberculosis else where In the operation great care must be taken to prevent infection

The article is supplemented by a number of roent genograms WILLIAM J PICKETT M D

Acute Appendicatis A Study Based on Ockin A the Material of the Municipal Military Hospital of Moseow (Die akute Appendicatis auf Grund des Materials des staedtischen Soldatenkovkranken hauses in Moskau) 1 erhandl d 16 russ Chirur genkongr Moscow 1924

Of 4 193 eases of appendicitis treated in the Municipal Hospital of Mo con 935 were acute Six hundred and seven were operated upon the ratio of those operated upon to those not operated upon being therefore I I 8 The critical period for the development of peritonitis is the first eight days Later the tendency is toward abscess formation Of the 328 ca es treated surgically forty two were operated upon on the first day forty four on the econd day twenty seven on the third day twenty one on the fourth day twenty on the fifth day ten on the sixth day twelve on the seventh day six on the eighth day eleven on the ninth day six on the tenth day fifty six between the eleventh and eight centh days and seventy three between the nine teenth and twenty fourth days

A diagnostic error was made in three ca es (o o per cent) In 196 cases the appendix was removed in 117 only a laparotomy or extraperitoneal section was done and in fifteen a combined operation was performed

The author usually operates within the fir t twenty four hours When early infiltration has occurred without menacing symptoms he waits until the second day At later stages he op rates only on the most urgent indications

Of the seventy six deaths in the cases reviewed sixty eight were due to diffuse peritonitis four to localized peritonitis with abscess one to narcosis and three to severe complicating diseases The total mortality in the cases of acute appendicitis was 8 r per cent In the cases operated upon it was 23 2 per cent In the forty two cases in which op ration was performed on the first day there was one death a mortality of 2 4 per cent The cause of this death was peritoneal sepsis. In the forty four cases on r ated upon on the second day there were eight deaths from diffuse purulent peritonitis a mortality of 18 2 per cent With op ration on su ceeding days the mortality rose to 333 per cent on the third day In cases of diffuse p ritoritis the mortality was 100 per cent

Operation within the first twenty four hours is urgently indicated but in Russia this is not always possible on account of general conditions

SCHAACK (Z)

Hertzier A E An Inquiry into the Nature of

Chronic Appendicitis [m J Obst & Gynec 1926 Rosston G D and Fisher A O Appendichtis In Pregnancy im J Obst & Gynee 1926 x1 184

From an investigation to determine the nature of chronic appendicitis HERTZLER draws the following conclusions

1 Februic changes in the appendix of whatever degree are not attended by clinical symptoms

2 The anatomical structure of the appendix which is commonly removed on the diagnosis of chronic appendicitis shows no variation from that of the appendix of a person without any abdominal complaint whatsoever

3 Considered in the light of like changes in other organs the minimal changes alleged to be present in cases of so called chronic appendicitis are wholly inadequate to explain the symptoms ascribed to

4 Mere alleged relief of symptoms after the removal of the appendix is not sufficient to prove that the appendix was the cause of the symptoms

5 The vast majority of patients subjected to ap pendectomy for chronic appendicates do not claim

relief of their symptoms 6 The symptoms alleged to be due to chronic

appendicitis can be relieved by searching out and removing the actual cause without molesting the appendix ROYSTON and FISHER state that acute appendi

citis in pregnancy progresses very rapidly and per foration is almost always followed by diffuse spread ing pentonitis with little tendency toward localiza tion and abscess formation

In most instances the diagnosis is not difficult but

in some cases the symptoms may be masked by the discomforts of a stormy pregnancy In the presence of acute abdominal symptoms suggesting appendictis, the complication of pregnancy should be dis regarded Early interference in such cases is even more urgent, if possible, than in the ordinary case

The authors are of the opinion that appendectomy should be recommended for women who had attacks of appendicitis hefore they became pregnant. Even though they successfully passed through one or more attacks, the risk of a recurrence during pregnancy is too great to he disregarded. The results of operation in the early months of pregnancy are apparently as good as those obtained in the non pregnant state and the danger of abortion is very slight. Ten cases are renorted.

In the discussion of these reports Hevo said that much of the pathology of chromic appendicuts must be accepted on faith. He helieves that the infected appendix should be regarded, not as a single iso lated organ with symptoms of its own, but as an initiated viscus which interferes with the harmonious

action of the entire gastro intestinal tract

A number of years ago, when Hey d had occasion to tabulate the so called 'cures' of chronic appendiction by appendectomy he was greatly surprised to find that a cure was not obtained when the appendix was removed for simple localized pain on the right side, whereas in the cases in which the appendectomy was done for symptoms referable to the upper abdomen and there were no demonstrable pathological changes in either the gall bladder or the stomach a cure resulted almost invariably

PHANEUF stated that in the late cases be found a gangrenous ruptured appendix and frequently be ginning general peritonitis due to lack of localiza tion A measure which may save life is enterostomy or excostomy done in connection with the appen dectomy In this procedure a pursestring suture of catgut is placed around the base of the appendix, the appendix is removed flush with the cacum a No 28 French catheter is introduced into the opening and fastened to the edges of the wound with a stitch of catgut and the pursestring is tied. A second purse string suture is usually employed to make the catheter more secure in the intestine The catheter is brought out through a stah wound and the ah domen is drained by means of a cigarette drain through the primary incision

This procedure makes it possible to control distention establish drainage and introduce glucose solution directly into the intestine

E L CORNELL M D

Neumann, W Chronic Appendicitis According to the Statistics of the Municipal Military Hos pitul of Moscow (Die chronische Appendicitis nach Angaben des staedtischen Soldatenkovkranken hauses in Moskau) Verhandl d 16 russ Chrur genkour, Moscow 19

In the last thirteen years 3 258 cases of chromic appendicties have been treated on the surgical dwi sion of the Municipal Military Hospital of Moscow One thousand and sixty two of the patients were

males Forty even per cent of the patients were in the third decade of life

Three thousand and eighty two of the cases were operated upon In twenty one cases removal of the appendix was impossible because of deep infiltration Local anasthesia was employed in 30 per cent

Postoperative pneumonia occurred in ninety cases (3 per cent), and suppuration in 310 cases (10 per cent). There were twenty two deaths, a mortality of 07 per cent. The cause of death was narcosis in four, peritomits in fourteen, sepsis in two, harmo publia in one, and labor in one

The author helieves that appendictomy is indicated after one attack of appendictis

SCHAACK (Z)

Eliason, E. L. Pylephlebitis and Liver Abscess Following Appendicitis. Surg. Gynec & Obst. 19 6, viu. 510

Pylephlebitis and abscess of the liver have come to be regarded by many surgeons as the same condition. Liver abscess may arise through four channels the portal veins the hepatic artery, the bile ducts and possibly, although in no case has this been demonstrated, through the lymphatics.

When the hepatic artery is the portal of entry, the abscesses are small and multiple and death results from the original blood stream infection. When the bile ducts carry the infection the abscesses are distributed accordingly and pus is found in the ducts. In diffuse peritonitis, the lymphatics are probably the carriers. It is only when the infection travels by way of the portal veins that both pylephiebitis and hepatic abscesses occur even then the two conditions are not always associated as is shown by one of the cases reported in this article.

Eliason has collected in all fifty three cases of pyephlehitis with twenty seven deaths a mortality of 59 per cent. In some of these cases the diagnosis was not confirmed by operation or autopsy

The signs and symptoms include fever, leuco cytosis pain literus, tenderness, œdema nausea and vomiting ascites lassitude, anoreua and ema ciation. The last three were marked in every case. In cases presenting the symptoms mentioned and in the region of the lower ribs in the mid axillary line a firm or boggy œdema with the characteristics of a lymph rather than a vascular œdema, Elason he leves an exploration is warranted. The X-ray find imps are important.

The author reports twelve cases of liver abscess and two of pylephlehitis. In seven of twelve cases of liver abscess only a single abscess was found. The oldest patient was 67 years of age. The youngest with abscess was 13 years old, and the youngest with pylephlebitis. 7 years old beven of the fourteen patients survived. In the sixty seven cases reported to date—fifty three in the literature and fourteen reported in this article—the mortality was 54 5 per cent.

If a careful study of the reported cases is made two startling facts are brought to light the first,

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Koontz A R Muscle and Fascia Suture with Re lation to Hernia Repair Surg Gynes & Obst 1926 vilu 222

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GASTRO INTESTINAL TRACT

Haudek The Reliability of the Gastric Niche in the Diagnosis of Ulcer (Zur Frage der Verlaesslichkeit der Magennische fuer die Ulcusdia_nose) Fortschr a d Geb a Roenig nitraken 192 xxun 56 621

In the recent literature the reliability of the gastne nuche in the diagnosis of ulcer has been questioned Haudek regards it as an entirely reliable sign of ulcer when it is associated with the complete character site is syndrome. The diagnosis is certain however only when the ulcer is situated in the middle portion of the stomach.

Haudek discusses a few cases in which even though an ulker is not found at operation, such a lesion may be present. Not uncommonly an ulker is overlooked during operation. When the findings are apparently negative the gastrocole meneums should be split and the posterior wall of the stomach examined.

Mention is made of cases reported by Simon and Altschul in which an apparent nuche was produced by processes outside the stomach such as adhesions extring traction on the serious side of a brailed ulcer Haudek calls attention to the diagnostic mistake in these cases and interprets the picture as a typical contrast filling of the disodenojejunal fiexure within the gastine shadow. The error is attributed to the fact that because of his weakness the patient was not exnamed in this position of the disodenois of the discontraction of the disodenois of the disodenois of the shadows could have been separated by pressure shadows could have been separated by pressure schul s case in which a niche was simulated by a tu mor in the tail of the pancreas with a focus of calcification

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With regard to reports by Reiche Petren and Eddinger the author states that inches are not pro trussions and that there is no premountory symptom of perforation Perforation is extraordinarily rare in niche formation because of the adhesions around the nuche

It is easy to avoid mistaking a niche for an atypically situated dome of the left colonic flexure and for a pseudo niche in the angle which is nothing more than a normal bulging of the lesser curvature be tween two powerful penistal'ic constrictions

The question as to whether a differentiation be theen ulcor and carcinoma is possible Bludda answers affirmatively with regard to primary car information and the stomach but admits that it may be uncertain when an ulcer shows malignant degeneration. He includes in his article a table of the reentgenological differences between the two lessons. It is admitted that in certain cases the differential diagnosis was not easy but to show that a correct diagnosis was not easy but to show that a correct diagnosis was made eventually. Haudek reports statistics demonstrating that a carcinoma was never found when a diagnosi of ulcer was made and an ulcer was never present when the diagnosis was actinioma. Rospetius 67:

Bufalini M Rational Surgical Treatment of Gas tric and Duodenal Ulcer (Sul trattamento chir urgico razionale dell' ulcera gastrica e duodenale) Arch tial di chir 1925 av 041

Bufalini reviews the results of the various methods of operation for ulcer from simple gastro enterostom; to the most extensive resections and concludes that there is no method of treatment that furnishes an absolute guarantee against recurrence or the de velopment of peptic ulcer

When resection was first performed numerous statustures were published which showed a much lower percentage of peptic ulcres after this operation than after simple gastro enterostomy, but as the late results have become more evident the difference is not nearly so great

In the attempt to prevent recurrence and peptic ulter surgeons have passed from simple resection of the pylorus to resection of the antrum and then to subtotal and even total resections of the stomach with the idea of eliminating the hydrochloric acid which is supposed to be the cause of peptic ulcer

I he diagnosis is usually made from the hæmorrhage or the later evidence of perforation The condition may be mistaken for perforated appendicitis. Oper ative intervention offers the only hope of cure The diverticulum should be removed. If the patient s condition will not allow this, eventration of the loop and dramage of the peritoneum must suffice

The authors report two cases of their own and re view thirteen cases reported in the literature

WILLIAM I PICKETT M D

Pascale G Peptic Ulcer of Meckel's Diverticulum (Ulcera peptica del diverticolo di Meckel) Ann stal di chir 1025 1V. 065

Only eight cases of ulcer of Meckel's diverticulum have been reported in the literature. In four the lesion was found at autopsy, and in the others, dur ing emergency operations performed on various

diagnoses

The author reports a case of his own in which the diagnosis was made before operation. The patient was a 41 year old woman who, since 1912, had been having crises of pain in the para umbilical region without any true gastric pain or hæmatemesis, had passed blood mixed with pus per rectum, and had periods of obstinate constipation lasting for seven or eight days

Appendicitis was excluded by the fact that there was no fever and the para umbilical pain did not radiate into the iliac fossa. The pain in ulcer of Meckel's diverticulum is independent of meals and of the kind of food eaten It may be accompanied by gastric symptoms but not by vomiting or hæma temesis. The hamorrhaue from the intestine is more serious the nearer the ulceration to the insertion of the mesentery The longer the diverticulum and the nearer the ulcer to its tip the less the hæmorrhage

In the case reported, the roentgen examination showed the stomach, duodenum and ileocacal region to be normal At the site of the pain to the right of the umbilical region, was a loop of small intestine containing a dark, well defined shadow which suggested a calculus A diagnosis of simple

ulcer of the small intestine was made

Operation revealed a Meckel's diverticulum with a calculus and the scar of a healed ulcer As the appendix was entirely normal, it was not removed. The diverticulum was excised, the opening in the wall of the intestine sutured in three layers and the abdominal wound completely closed Recovery was uneventful, and the patient has had no further symp

Peptic ulcers of Meckel's diverticulum are identi cal with round ulcer of the stomach in their anatomi cal form, the condition of the tissues around them, and their course and outcome In all of the cases in which a histological examination has been made, gastric mucosa has been found in the diverticulum. These islands of primitive embryonic gastric mucosa in abnormal surroundings develop abnormally he cause of lack of function, and the hiological condition of the mucosa is affected by a change in the secretion

of the peptic glands which favors ulceration as the result of other vascular, nervous, and infective fac

The only treatment is radical removal of the di verticulum AUDREY G MORGAN, M D

Castex M R Romano N and Beretervide, J J Insufficiency of the lieocrecal Valve (La insufi ciencia de la vilvula ileo cecal) Arch argent de enferm d apar digest, 1925, 1 124

Experiments on animals and observations on man through a cecal fistula have shown that the ileo cæcal valve is a true sphincter which retains fæcal matter in the small intestine until digestion is complete and prevents regurbitation from the large in testine Insufficiency of the valve may result from mobility of the cæcum, atrophy of the tissues an inflammatory process a congenital defect, or a tumor in the ileocæcal region, but its most common cause is dilatation of the cacum caused by simple stagnation of fæcal matter, an excessive accumula tion of gas dyspepsia from putrefaction and fermen tation, chronic colitis followed by atony of the wall, or parasitic colitis

The symptoms are chiefly the general symptoms of intovication but there is tenderness on pressure over the valve The valve is situated at the intersection of a line connecting the highest point of the crests of the ilium with a line perpendicular to the middle point of Poupart's ligament In some cases the distended excum can be seen in the right iliac fossa and pressure exerted with one hand on the ascending colon and the other on the excum so as to force the valve will make the swelling disappear In roentgen examinations of 3,000 patients Case found insufficiency of the ileocacal valve in one

The clinical histories of twelve cases are reported with the roentgenograms Except in extreme cases, the treatment is medical. The intestine should be evacuated three or four times a day method of supplying sugar to the large intestine to favor the growth of flora that will protect against putrefaction is the administration of from 60 to roo gm of lactose daily Cases in which intestinal para sites are present should be treated with yatren, sto varsol, treparsol or emetine

In sixty cases which Kellogg treated medically a cure was obtained in 36 per cent, improvement in 40 per cent, and slight henefit in 14 per cent His radical surgical treatment consists in exteriorizing the ileocæcal region making a U shaped suture to overcome the invagination of the small intestine and restoring the continuity of the ruptured habenula of the cæcum AUDREY G MORGAN, M D

Larimore J W, and Fisher, A O Tuberculosis of the Cucum Ann Surg 1926, luxun 496

Tuberculosis of the intestine is of three typesthe hyperplastic the fibrous and the ulcerative Primary intestinal tuberculosis tends to remain localized and to he hyperplastic, while the secondary

variety which is more acute as destructive and ulcerative. The X-ray examination reverls gastine, hypotomicity and intestinal hypermothity. The principal sign of leococcal for excoordic tuberculosis is the progressively increasing intolerance of the account to involent. In the authors cases with ulceration this was demonstrated by fluoroscopic observation and palpation. The only other case in which it was noted was a case of retroperitonical sizcoma which had ruised and displaced the execution.

The authors report fave cases in which the diag nosis of creat involvement was made from the \textsup sindings. In these cases, the execun was removed When the diagnosis can be made from the climical symptoms the condition is u unlib beyond operative relief. The evidence of gro pathological changes in the bowel before its resection was slight. In two case only the appendix showed gross evidence of disease but in two others there were no significant changes in the appendix. The authors reject the theory that the appendix is the first intestinal localization of the disease.

In cases of tuberculoma or the hyperplastic type of intestinal tuberculosis surgrad removal is often indicated to rule out miliganance or reluve obstruction. The results of resection of the execum in these cases are usually very satisfactory as not infrequently the patient is free from tuberculosis clee where. In the operation great cate must be taken to

prevent infection

The article is supplemented by a number of roent genograms William I Pickett M D

Ockin A Acute Appendicatis A Study Based on the Material of the Municipal Military Hospital of Moscow (Die akute Appendicats and Grund des Materials des stredit chen Soldatenko-kranken hauses in Moskau) Lethandl & 16 russ Chirar genkongr Mo cow 1924

Of 4 193 cases of appendicitis treated in the Municipal Hospital of Mo con 935 were acute Six hundred and seven were operated upon the ratio of those operated upon to those not operated upon being therefore 1 18 The entical period for the development of peritonitis is the first eight days Later the tendency is toward abscess formation Of the 328 ca es treated surgically forty two were operated upon on the first day forty four on the econd day twenty seven on the third day twenty one on the fourth day twenty on the fifth day ten on the sixth day twelve on the seventh day six on the eighth day eleven on the minth day six on the tenth day fifty six between the eleventh and eight centh days and seventy three between the nine teenth and twenty fourth days

A diagnostic error was made in three ca es (o o per cent) In 196 cases the appendix was removed in 117 only a laparotomy or extraperitonical section was done and in fifteen a combined operation was performed.

The author usually operates within the first twenty four hours. When early infiltration has occurred without menacing symptoms he waits until the second day. At later stages he op rates only on the most urgent indications

Of the seventy six deaths in the cases reviewed sixty eight were due to diffuse peritonitis, four to localized peritonitis with abscess one to narcosis and three to severe complicating diseases. The total mortality in the cases of acute appendicitis was 8 i per cent. In the cases operated upon it was 23 2 per cent In the forty two cases in which op ration was performed on the first day there was one death a mortality of 2 4 per cent The cause of this death was pentoneal sepsis In the forty four cases on r ated upon on the second day there were eight deaths from diffuse purulent peritonitis a mortality of 18 2 per cent With operation on succeeding days the mortality rose to 33 3 per cent on the third In cases of diffuse peritonitis the mortality was 100 per cent

Operation within the first twenty four hours is urgently indicated but in Russia this i not always possible on account of general conditions

SCHLACK (Z)

Hertzler A E An Inquiry into the Nature of Chronic Appendicitis Am J Obst & Gynec 1926 21 155 Rosston G D and Fisher A O Appendicitis in

Pregnancy Am J Obst & Gynec 2026 to 184

From an investigation to determine the nature of chronic appendicitis Herrzuer draws the following

conclusions

1 Fibrotic changes in the appendix of whatever degree are not attended by clinical symptoms

The anatomical structure of the appendix which is commonly removed on the diagnosis of chronic appendixitis shows no variation from that of the appendix of a person without any abdominal complaint whatsoever

3 Considered in the light of like changes in other organs the minimal changes alleged to be present in cases of so called chronic appendictis are wholly inadequate to explain the symptom ascribed to them.

4 Mere alleged relief of symptoms after the removal of the appendix is not sufficient to prove that the appendix was the cause of the symptoms

5 The vast majority of patients subjected to appendictions for chronic appendicties do not claim relief of their symptoms

6 The symptoms alleged to be due to chronic appendictis can be relieved by searching out and removing the actual cause without molesting the appendix

ROSSON and FENIER tate that acute appendictis in pregnancy progresses very rapidly and pet foration is almost always followed by diffuse spreading peritonitis with little tendency toward localization and abscess formation

In most instances the diagnosis is not difficult but in some cases the symptoms may be masked by the discomforts of a stormy pregnancy. In the presence of acute abdominal symptoms suggesting appendicitis, the complication of pregnancy should be disregarded Early interference in such cases is even more urgent, if possible, than in the ordinary case

The authors are of the opmion that appendectomy should he recommended for women who had attacks of appendictits hefore they became pregnant. Even though they successfully passed through one or more attacks, the risk of a recurrence during pregnancy is to great to he disregarded. The results of operation in the early months of pregnancy are apparently as good as those obtained in the non pregnant state and the danger of abortion is very slight. Ten cases are reported.

In the discussion of these reports HEVD said that much of the pathology of chronic appendicus must be accepted on faith. He helieves that the infected appendix should be regarded, not as a single iso lated organ with symptoms of its own, but as an irritated viscus which interferes with the harmonious action of the entire gastro intestinal tract

A number of years ago when Hey d had occasion to tabulate the so called 'cures' of chronic appendiction by appendectomy he was greatly surprised to find that a cure was not obtained when the appendix was removed for simple localized pain on the right side, whereas in the cases in which the appendectomy was done for symptoms referable to the upper abdomen and there were no demonstrable pathological changes in either the gall bladder or the stomach a cure resulted almost invariably

PHANEUF stated that in the late cases be found a gangrenous ruptured appendix and frequently be ginning general peritonitis due to lack of localiza tion A measure which may save life is enterostomy or excostomy done in connection with the appen dectomy In this procedure a pursestring suture of catgut is placed around the base of the appendix the appendix is removed flusb with the cæcum, a No 28 French catbeter is introduced into the opening and fastened to the edges of the wound with a stitch of catgut and the pursestring is tied. A second purse string suture is usually employed to make the catheter more secure in the intestine. The catheter is brought out through a stab wound and the abdomen is drained by means of a eigarette drain through the primary incision

This procedure makes it possible to control distention establish drainage, and introduce glucose solution directly into the intestine

E L CORVELL M D

Neumann, W. Chronic Appendicitis According to the Statistics of the Municipal Military Hos pital of Vioscow (Die chronische Appendicitis nach Angaben des staedtischen Soldstenkovkranken hauses im Moskau) I erhandl d 16 russ Chirur tenkong Vioscow 1974

In the last thirteen years, 3 258 cases of chronic appendicutis have been treated on the surgical division of the Yunicipal Military Hospital of Moscow One thousand and sixty two of the patients were

males Forty even per cent of the patients were in the third decade of life

Three thousand and eighty two of the cases were operated upon In twenty one cases removal of the appendix was impossible because of deep infiltration Local anasthesia was employed in 30 per cent

Postoperative pneumonia occurred in ninety c ises (3 per cent), and suppuration in 310 cases (10 per cent). There were twenty two deaths, a moitality of 07 per cent. The cause of death was narcosis in four, peritonitis in fourteen, sepsis in two, hamo philia in one, and labor in one

The author believes that appendictomy is indicated after one attack of appendicitis

SCHARCE (Z)

Eliason F L Pylephlebitis and Liver Abscess Fol lowing Appendicitis Surg, Gynec & Obst., 1926, vin., 510

Pylephlebitis and abscess of the liver have come to be regarded by many surgeons as the same condition Liver abscess may arise through four channels the portal veins the hepatic artery, the hile ducts, and possibly, although in no case has this been demonstrated, through the 1 mphatics

When the hepatic artery is the porial of entry, the abscesses are small and multiple and death results from the original blood stream infection. When the bile ducts carry the infection, the abscesses are distributed accordingly and pus is found in the ducts in diffuse peritonits the lymphatics are probably way of the portal vens that both pylephichits and hepatic abscesses occur, even then, the to conditions are not always associated, as is shown by one of the eases reported in this article.

Eliason has collected in all fifty three cases of pyepblehitis with twenty seven deaths a mortality of 50 per cent. In some of these cases the diagnosis was not confirmed by operation or autopsy

The signs and symptoms include fever, leuco cytosis pain, icterus tenderness, ordema, nausea and vomiting ascites lassitude, anorexia and ema ciation. The last three vere marked in every case in cases presenting the symptoms mentioned and, in the region of the lower ribs in the mid axillary line a firm or bogg ordema with the characteristics of a lymph rather than a vascular ordema, Eliason be lieves an exploration is warranted. The X ray find ings are important.

The author reports twelve cases of liver abscess and two of pylephlehitis. In seven of twelve cases of liver abscess only a single abscess was found. The oldest patient was 67 years of age. The youngest with abscess was 13 years old, and the youngest with pylephlehitis, 7 years old. Seven of the fourteen patients survived. In the sixty-seven case reported to date—fifty three in the literature and fourteen reported in this article—the mortality was 54 5 per cent.

If a careful study of the reported cases is made two startling facts are brought to light the first. that in every case a provisional diagnosis or a re tained diagnosis of right hasal pneumonia was made and the second that a positive operative diagnosis was made very tardily The treatment was surgical The author draws the following conclusions

Pylephlebitis and liver abscess are not identi cal They occur as a complication in from o 1 to 0 4

per cent of cases of appendicitis

2 The \ ray and fluoroscope aid in the early diagnosis by showing a high diaphragm the move ment of which is sometimes restricted

3 Local cedema and prominent veins are valuable

diagnostic signs 4 Pain is not always present. It is noted most

ment of choice

- when the infection is in or on the upper surface of the liver
- 5 Pneumonic signs are frequently the result of lung compression rather than pneumonia
- 6 Jaundice is practically a constant sign The presence of lassitude and anorexia is very suggestive in the diagnosis

8 The prognosis is not always poor since recov

ery results in 54 per cent of the cases o Operation through the diaphragm is the treat

Cantelmo O An Experimental Study of the I hystopathology of Heosigmoldostomy (Contributo sperimentale alla fisiopatologia delle ileosigmoid ostomie) Inn ital di chir 10 5 1v 1001

CARL R STEINKE M D

Captelmo reports his experimental work on eight dogs. The histological structure and function of the colon are practically the same in the dog and man but in the dog there is no sigmoid in the true sense of the word the descending colon passing to the ampulla without any flexure. Anastomosis hetween the sleum and the lower part of the colon in the dog is equivalent to ileo igmoidostomy in man

Four of the author's dogs died the mortality being therefore 50 per cent In all of those which died the intestine was full because a purgative had not been given or an enema was not effective. In the only one of these dogs in which no operative measures had been taken to exclude the intermediate tract of the intestine nutrition remained normal while in the three in which steno is of the intermediate tract had been brought about nutrition was very poor

The report is supplemented by roentgenograms of the eight animals From these and examinations of the specimens the author concludes that in the dog a low ileocolostomy has little effect in deviating the current of intestinal contents from its normal path unle s operative measures are taken to bring about steno is of the intermediate tract The current pa ses over the anastomotic opening without hecom ing engaged in it and follows its old path unless the lumen of the sleum is obstructed in some other way as for example by peritoneal bands If the ilco colostomy is supplemented by stenosis of the post anastomotic segment of the intestine the current is deviated and pas es through the new opening When under the same experimental conditions the post

anastomotic ileum is obstructed the pre anastomotic part of the colon assumes a compensatory function in acting on the chyme which flows back from the post anastomotic terminal colon The reflux into the inter mediate colon following a low ileocolostomy does not seem to be any greater than is necessary for this compensating action

In comparing low ileocolostomy with anastomosis between the ileum and higher segments of the colon the author found that the former is less ant to be followed by reflux into the circum with stagnation of the intestinal contents After a high anastomosis enormous accumulations of faces sometimes occur in the cæcum Low ileocolostomy had the disadvan tage of excluding a long tract of the intestine while high anastomosis is associated with the danger of serious reflux. The author believes that the former is less dangerous than the latter

AUDREY G MORGAY M D

Mandl F The Field of Application of the Primary and Secondary Drawing Through Procedure Following Resection of Rectal Cancer by the Sacral Route Alson Demonstration of the Pos sibility of Artificial Prolapse and Its Applica tion (Zur Anwendungsbreite des primaeren und sekundaeren Durchzugsverfahrens nach Resektion des Mastdarmkrebses auf sakralem Wege gleich zeitiger Hinweis auf die Moeglichkeit einer Luenst lichen Prolabierung und deren Ausnutzung) 1rch f klin Chir 1925 CXXXVI 479

Even though a number of leading surgeons have recently contended that a truly radical operation for cancer of the rectum can be accomplished only by a combined operation the sacral operation is still regarded as the method of choice at the Hochenegg

In the author's opinion the drawing through procedure is the safest method of treating the gut after resection of the rectum. He attributes Kirschner's poor results with it to its performance in the absence of a definite radication and the use of an incorrect technique

Cangrene of the gut must be avoided. The part of the gut to he drawn through must be well nour ished therefore no blood vessel that is important for its nutrition should be ligated and the part of the gut drawn through must not be subjected to too great tension The proximal portion of the intestine must he applied to the anus or the peripheral portion of the

gut without tension

In order to maintain the viability of the part of the gut drawn down the wound cavity should be made as small as possible the soft parts drawn toward the intestinal wall and care taken that gauze tampons are not placed tightly around the gut. In cases in which from the beginning errors of asepsis cannot be avoided the surgeon should proceed antiseptically by wiping with Pregl s iodine solution

Before the gut is drawn through the proximal portion should be closed completely with gauze

In the peripheral portion of the rectum the mucosa should first be removed

The technique as regards the portion of the gut brought to the anus should be as simple as possible

In the after treatment, it is most important to prevent stenosis of the anus Consequently the sphincter portion must be subjected to the syste matic use of hougies, beginning about ten days after

the operation

The author discusses also the so called secondary drawing through technique of Weil For cases in which after resection of the rectum, there is com plete separation of the afferent portion of the gut from the anal portion with prolapse of the former, Weil suggested drawing the prolapsed portion of the gut through the peripheral portion after opening of its upper cicatricially contracted end. On the basis of quite a large number of favorable results ob tained with this method the author suggests that in every case in which a resection can be undertak en with maintenance of the sphincter portion and in which any difficulty is experienced in the circu lar suture or the drawing through method the sphincter portion be left and the proximal portion of the sacral anus be loosely sutured. An attempt might then be made to produce a prolapse from the sacral anus by artificial methods. With the development of the prolapse the quite reliable sec ondary drawing through procedure could be done

DENCKS (Z)

Powilewicz A Imperforate Anus Corrected by Operation Associated Megasigmoid (Imperfora tion anale opéree et guérie megacolon sigmoidien concomitant) Bull Soc d'obst et de gynée de Par 1925 TIV, 637

The author reports the case of an infant which was brought for treatment on the third day after birth because of vomiting, abdominal distention and ab sence of bowel movements Examination revealed complete absence of the anus The .kin over the

anal region was perfectly smooth

Operation was performed immediately Through a longitudinal median incision and an incision joining the ischial tuberosities, the blind pouch constituting the rectum was found 11/2 cm below the surface This pouch was opened drawn down and sutured to the skin The infant recovered, and when seen a year later was normal At that time, at the sug gestion of Couvelaire, the intestine was examined with the \ ray This examination revealed marked distention of the sigmoid and of the lower part of the descending colon As no secondary constriction had followed the operation, the distention was re garded as congenital

In the discussion of this case Conversing cited a case of the same type in which the megacolon was not discovered until adult life The patient, a wom an, was operated upon in the third month of preg nancy for what was thought to be a cyst Instead a dilated pelvic colon containing a fecal impaction was found The fæcal mass was broken up After the operation the pregnancy continued normally to term

ALBERT F DE GROAT M D

Madelung O W Empalement Wounds of the Anus and Rectum (Pfaehlungsverletzungen des Afters und des Mastdarms) Arch f klin Chir,

The author collected 276 cases of empalement wounds of the anus and rectum Thirty five years ago be pointed out the importance of this type of miury and since that time has followed the subject

with special interest

Madelung describes the different methods by which such wounds may be produced and their char-They may be classified anatomically into wounds of the rectum and their complications such as wounds of the vagina the connective tissue, and the hones of the pelvis wounds of the hladder and urethra and wounds of the peritoneum and the in traperitoneal organs

The clinical course varies according to the severity of the mury Of the patients whose cases are re viewed twenty nine died within the first forty eight hours The symptoms associated with each type of wound are described Peritonitis in particular is dis cussed Of 102 cases of involvement of the perito neum perstonitis developed in eighty four Thirty two of the patients with peritonitis recovered. Of these twenty three were subjected to laparotomy Fifty two died

Of the 103 persons sustaining a rectal wound open ing into the peritoneal cavity, forty three recovered and sixty died. Of forty four who were subjected to laparotomy twenty nine recovered and fifteen died

In the diagnosis, attention should be given to the direction and depth of the empalement, par ticularly with regard to the presence of an opening into the peritoneal cavity The author gives detailed instructions concerning the examination in different types of injury

The patient should be treated in a hospital, since even when the external wound is small there may he a severe internal injury. When possible he should be transported to the hospital in the sitting position

In doubtful cases a laparotomy should be per formed without delay, involvement of the perito neum is nearly always disclosed Enemata should never be given under any circumstances External suture of the wound is also dangerous. The treat ment indicated in involvement of the different organs is described in detail SCHUEVEMANN (Z)

LIVER, GALL BLADDER, PANCREAS, AND SPLEEN

Fetter W J The Present Status of Functional Tests of the Liver Atlantic M J 19 6 xxix 289 Grier G W X Ray Diagnosts of Diseases of the Liver and Gall Bladder Atlantic M J 1926 YUY

Maclachlan W W G The Significance of Bile Pigment Atlantic M J 1025 YET 207

FETTER attaches definite clinical value to the liver function test with phenoltetrachlorphthalein accord ing to the method of Rosenthal a procedure in which the rate of liver excretion is estimated by determin ing the amount of the dye retained in the blood Honever when obstructs e jaundice is present the value of the test is lessened because liver function and jaundice are parallel in degree The dye test is indicated therefore in non obstruc tive cases

The tolerance tests of the functional capacity of the liver hen dealing with carbohydrates Fetter

has found disappointing

GREER states that the ' ray is of little aid in the diagnosis of liver disea e unless the contour of the organ has been changed by disease. Direct evidence of carcinoma or other tumors can sometimes be ob tained by roentgen examination and shado s of stones in the gall ducts or gall bladder are often demonstrated

When stones fail to cast shadows their presence may be reverled following the use of sodium tetra iodophenalphthalein which is excreted through the liver and renders hile opaque to the \ ray thus causing shadows corresponding to the shape of the gall bladder whenever it is possible for the dye laden bile to enter that organ The absence of the gall bladder shadow when the technique is dependable indicates obstru tion of the cystic duct

Grier advocates the use of pneumoperitoneum in the differentiation of liver disease from other con ditions in the hepatic region su h as pathological

masses above the diaphragm

MACLACHIAN gives a comprehensive review of the theories of the formation of bile pigment citing the opinions of Blankenhorn McNee Man McMas ters Whipple Hooper Rous Van den Bergh Muel engraht Rich and Bumstead

He believes that bile pigments can be produced without the l ver th liver merely storing or exerci ing them. He was the tests for bile pigments as an and to early diagnosis Attention is called to the fact that the class; al examination of the science and skin in bright daylight seldom fails to reveal interes if it

Wen Maclachlan desires to make a test for bile pigments in the urine he instructs the putient to decrease his fluid intake in order to concentrate the urine

DE NIS W CRITE M D

Snell A M The Clinical Application of Recent Studies on Jaundice Surg Gyner & Obst 1926 x111 528

I ecent physiological tudies have definitely es tablished the fact that bilirubin the principal pig ment of human bile is formed outside the liver from hamoglobin Mann and his coworkers at the Mayo Clinic have brought forward evidence to show that this transformation is effected chiefly in the spleen and bone marro v presumably through the agency of the reticulo endothelial system

According to McNee an excess of bile piement in the blood stream may be due to (1) the excessive production of bilirubin from hamoglobin, (2) ob struction in the bile passages with subsequent re ab

sorption of hibrubin or (3) disturbance of the function of the polygonal liver cells and their failure to excrete bilirubin in quantities sufficient to keep pace nath production

The types of jaundice resulting from these conditions may be classified as hamolytic obstructive and toric or infectious \ basis for differentiation is furnished by van den Bergh's test, which gives an indirect reaction in hamoly tie jaundice a direct reaction in obstructive raundire and either a delayed biphasis or direct reaction in the toxic or in fectious type. This test while not an entirely satis factory basis for such differentiation is most useful in the recognition of latent jaundice and the quarti tative study of hile pigments in the blood stream

It has been difficult to show changes in carbo hydrate and protein metabolism in mundiced pa tients by means of functional tests but in jaundiced animals diminished fruitose tolerance and lowering of the blood used occur quite constantly liberal supply of carbohydrate has been shown to protect the liver from tone injury, and since de fective carbohydrate metabolism is known to ac company joundice diets high in carbohydrates and intravenous injections of gluco e have been used climically in such cases with gratifying results

In studies of liver function in experimental ani mals and in patients a remarlable parallelism be tneen the degree of saundice and the degree of re tention of dies such as phenolitetrachiorphthalein is shown. The reasons for this are obscure but cer tain observations seem to show that the dve reten tion may be due to functional impairment in the liver cells as well as to a pathological change. This is demonstrated by the fact that die retention ac companies intravenous injections of "ublethal doses of ddute whole bile and that there is an immediate development of high grade die retention in experi mental animals after cholecystectoms and ligation of the common duct. In such car es no adequate patho logical basis for the dye retention can be demonstrat ed It is apparently not justifiable to reckon damage to the hepatic parenchyma due to jaundice in terms of phenoketrachlorphthalein retention alone a number of other factors mu t be taken into account

Other constituents of bile such as taurocholic and glycocholic acid are retained during obstructive jaundice and may have a profound effect on the organism Recent methods have been develop of for the study of bile acids in the blood and at the Mayo Clinic experimental and clinical work is being under taken to determine their rôle in obstructive and dis sociated jaundice

Rodríguez M C Primary Lyopneumocyst of the Liver (I soneumoquiste primiti o de higado) Semana mel sort rrus Bra

The author reports two cases of primary pyo pneumocyst of the liver with postoperative septi complications The first patient was a man of 37 years who came for treatment for pain in the right hypochondrum slight fever, and a subicteric color of the conjunctiva After he had been in bed under observation for a week he was suddenly seized with intense pain in the right hypochondrium associated with vomiting a small, rapid pulse, and a tempera

ture of 35 o degrees C

On examination, the right lobe of the liver was found greatly enlarged and the liver duliness replaced by tympany. An cosmophilia of 4 per cent was present. The Wassermann test was negative. This tools were coloriess. No parasites, ova, or vesicles were discovered. Roentgen examination showed the right side of the diaphragm to be very high and almost motionless, and disclosed, beneath the diaphragm, a semilunar clear zone bounded helow by a straight him which moved when the patient's position was changed.

At operation, performed under other anæsthesia, a cyst was found in the liver and a large amount of gas, pus, and vesicles was discharged. Free drainage

was established

On the twelfth day the patient's temperature was 40 degrees C, profuse sweating occurred, the pulse was small and rapid, and there was marked prostration. A frank septicemma then developed with car date weakness and a temperature varying from 37 to 41 degrees C. Under treatment with autogenous vaccines, fixation abscesses and irrigation of the abscess cavity with a disinfectant, the patient recovered.

The second case was that of a man of 35 years who four years ago, had had pain in the night hypochondrium radiating to the shoulder. This pain caused spontaneously but a short time before the patient consulted the author it recurred suddenly with nausea and vomiting, a temperature of 40 degrees C, frequent unnation and copious duarrhees

On examination, the right lobe of the liver was lound enlarged Extending from the fourth rib to the costal margin was a 13 mpanic zone surrounded by duliness. The intradermal hydrid test was weally positive. The cosinophiles equaled *23 per cent. The Wassermann test was negative. The roentgen pic ture was similar to that in the author 5 other case.

Operation was performed under novocain adrenalin anæsthesia by the transpleurodiapiragmatic route. The abscess was found about 1 cm below the surface of the liver. A large amount of gas and fettid pus containing vesicles was discharged. Tree draining was established. Signs of insufficiency of the liver developed a week later, and the patient died after two days.

Ricen L Cholecystitis and Diabetes Aorthuest
Med 1926 xxv 191

In mjection experiments on dogs the author succeeded in demonstrating that lesions of the islands of Langerhans resulting in the symptoms of dubetes can be produced by hematogenous infection main tained for a sufficiently long period of time The fact that he never succeeded in lowering the sugar toler ance of animals in which the gall bladder bad been temoved suggests that the infected gall bladder may

damage the pancreas, and particularly the islands of Langerhans, to such an extent as to produce diabetic symptoms

Whenever the injections produced a febrile re action, the micro organisms injected were found in the gall bladder. This explains in part at least, the well known fact that infections eriously aggravate the symptoms of diabetes. CARL R. STEINKE M.D.

Martin E D Complete Cholecystostomy Versus Cholecystectomy in Cases of Empyema of the Gall Bladder South M J 19 6 ax 198

The author describes an original surgical procedure for the relief of the patient who is acutely sick from emplema of the gall bladder. This operation may result in a cure and requires no more time than that necessary for drainage of the gall bladder. It was first employed as a temporary and life saving measure. To date it has heen performed in twelve cases with satisfactory and permanent results, but it is not recommended to replace cholecystectomy when the latter is indicated and can he done without increasing the risk.

The usual moisson is made through the right rectus and the other abdominal viscers are packed of sufficiently to expose the gall hladder from its fundus to the cystic duct. The gall hladder is emptied with suction apparatus, swabbed out with iodine, and then packed with gauze to prevent the escape of pus when it is opened. It is moised from the fundus to the cystic duct. If the gall hladder is small, no effort is made to remove redundant tissue. If it is greatly distended, is much of its wall is cut away as neces sar, and all hleeding points are ligated. A cigar drain with a tube in the center is sutured against the mucous surface. No adhesions are freed except those interfering with the performance of the operation. The complications of the operation have been neglighte.

Giordano D The Development of Carcinoma in Calculous Cholecystitis (Della comparsa di car cinoma entro a talune colecisti calcolose) Riforma med 19 5 th 1157

Gordano has found cancer in one of every seven teen of cases in which he has performed an operation for gall stones. He reports the case of a 63 year old woman in whom an operation for gall stones revealed an adenoma of the gall bladder. The patient was living and well fourteen years after the operation Gordano believes that if the timor had not been removed, it would probably have undergone malignant degeneration.

A mao of years old who was operated upon for gall stones and found to have cancer bad suffered from attacks of gall stone colic for twenty five year Gordaoo believes that if this patient had heen oper atted upon earlier his life would have been saved

In another case a cancer of the pancreas was found

Giordano concludes that the irritation of gall stones is often responsible for the development of cancer and while he does not hold that operation should be performed immediately in every case of gall stone colic he beheves that if a reasonable period of medical treatment does not cure the symptoms, the patient should be sent to the surgeon as operation may save him not only from gangrene or perforation of the gall blydder and suppurative cholangeits but all of from malignant degeneration.

AUDRIY C MOREYM MD

Castex M R and Galan J G Giardiasis of the Biliary Tract (La giardiasis de las vías biliares) 1rch argent de enferm d 1ptr digest 1925 1 30

fhe giardia intestinalis is a flagellate protozoan which inhabits the intestine of man and some animals It was first described by Lambl in 1859. In 1838 it was named lamblia intestinalis by Blanchard

The parasite has two forms the vegetative and the cystic. Its chief habitat is the duodenum and the upper part of the jepinum but it sometimes enters the gall bladder or bise ducts and in exceptional cases the stomach. It may be found in the faces or the fluid obtained by sounding the duodenum The manner in which the infection occurs in man is sudered host of the parasite but the identity of the types occurring in man and animals has not yet been proved. Some investigators believe that the prinsite is water borne as it has been found in the sediment of porcelain filter.

A greater number of the authors patients with giardiasis have suffered from constipation than from diarrboa. The syndrome includes dy pepsia an orema loss of weight painful distention of the abdo men and enlargement of the liver the last sometimes associated with pain and occasionally a sociated with icterus. In some of the cases there was pain in the duodenal region coming on two or more hours after meals resembling that of duodenal ulcer or chronic cholecystitis and associated with vomiting eructation or nausea. In almost all of the cases the condition was accompanied by headache pain in the nape of the neck physical and mental prostration insomnia neuralgia and painful precordial oppre sion. In some cases there were symptoms resembling those of true cholelithiasis. I eriduodenitis was found in many The clinical details of nine cases are given

Guardians is one of the most difficult parastic discases to cure. The authors have obtained the best results with alvarsan Experiments on animals bave shown that salvarsan must be given in large doses but this is more or less dangerous as the liver is enlarged and hepatic function is more or less insufficient. Kantor recommends beginning with o 60 gm and increasing the dose rapidly to 00 gets.

AUDREY G MORGAN M D

Coffey R G Dilatation of the Common Bile Duct in the Absence of a Functioning Gali Bladder Ann Surg 19 6 Ixxxii 479

The author has demonstrated by experiments that when a duct is implanted without valve forma

tion the duct dilates but when a valve is produced it does not dilate. The pressure within the gall ducts is much less than the static pressure within the bowel. Peristalis, within the diudenum produces an interval of lower pressure or a relative vacuum during which bile may escape into the diudenum When the diudenum is at rest. The valve at the out let of the duct is closed and bile must remain in the bilary system.

The gall bladder as the chief reservoir for bile when digestion is not going on fin the absence of a functioning gall bladder due to disease or remost of the organ at the bile due to become dilated. This did atation is not entirely harmless as the author demostrates by the histories of two cases in which the gall bladder had been removed for gall stones. In both of these cases the symptoms continued and at a second operation performed some time later the common duct was found dilated to the diameter of a man and greatly thickened. The bile within the duet was normal tooler and consistency and there was no evidence of stone formation or other obstruct was no evidence of stone formation or other obstruct.

The author concludes that dilatation of the ducts is alone sufficient to account for the persistence of symptoms William J Pickers M D

Chiray Lebon and Gozlan A Study of Esternal Panercatic Insumbelency as Indicated by the Enzy mes in the Duodenal Juice Removed with a Sound (Etude de Insufisance panefatique externe par le dosage des enzymes dans le sue duo dical prilevé par tubage) Bill et mim Soc mid d hôp de Par 1975 xi 1646

The authors studied pancreatic function by de termining the enzymes in the duodeal juce before and after the administration of a pancreatic stimulant. Whale there are many substances that stimulate pancreatic secretion most of them are unsatisfactory for such studies as they stimulate also the secretion of the stomach liver and intestines are result the pancreatic juce is greatly diluted and the distinuous particular distinction brings about a decrease in the concentration of the enzymes that may appear pathologically of the enzymes that may appear pathologically the second of the enzymes that may according to the concentration of the enzymes that may according to the enzymes of the enzy

Of the substances investigated only milk gave a practically constant increase in the enzy matic power of the duodonal juice and as this fact was discovered only recently exact measurements of the normal and pathological values of the external pancreaties seen too have not; between the following made to date it appears that the lipase activities the duodenal juice collected under the motion of the control of

After the introduction of the duodenal sound from 40 to 60 c cm of a solution of 33 per cent magnesium sulphate is first introduced to empty the gall bladder of its contents. After the evacuation of all of the

gall bladder hie and a few cubic centimeters of Bile C, 60 c cm of warm whole milk is injected slowly The opening of the sound is then closed to keep the milk from flowing out. At the end of half an hour the duodenal junce is removed by aspiration or siphon age. Sometimes it is necessary to inject a little warm water to strit the flow. In the duodenal fluid removed in this way, the ferments are measured at intervals of ten minutes the lipase heing determined by the author's modification of Bondi's method and the trypsin by the method of Guiltier, Roche and Baratte.

Damade and Grailly attribute the stimulating action of milk on the pancreas chiefly to the milk fat as they found a greater increase in the ferments after the use of whole milk than after the use of shimmed milk Audring Morgon, M D

Escudero P H Terrada, H M and Gallino M Cystic Tumors of the Head of the Pancreas Roentgenological Diagnosis (Tumors quisticos de la cabeza del pancreas diagnóstico radiológico) Arth orgent de afferm d opar digest 1925 1

A discussion of the \times ray picture of pancreatic tumor of the cysic type is followed by a hinef review of the clinical findings in a case studied by the authors. In the latter, the tumor was visible in the right epigastrium and was palpated as an irregular, firm mass located chiefly in the right epigastrium and the umbillical region. It could be deplaced over into the left side of the abdomen and a couple of fingerhreadths downward without causing pain hut pressure over the left pole or attempts to displace the mass upward resulted in intense pain in the lum har region. The tumor itself was insensitive.

ray examination at the time of the ing the contrast medium and at the fourth sixth .ighth, and eighteenth hour demonstrated only a long vertically placed stomach with the floor of the an trum below the level of the iliac crest the whole displaced to the left, and progressive stages of filling of the duodenum, which encompassed the tumor forming a large C with its concavity to the left The duodenum was somewhat dilated, and its shadow curve was cut off suddenly as though the duodenal lumen had been closed by compression at the point where the inferior and ascending part crossed the vertebral column Good roentgenograms were oh tained only by filling the stomach with contrast material and then expressing the material manually through the pylorus into the duodenum It was im possible bowever to force the contrast material or to introduce the duodenal sound beyond the point of seeming compres 10n

The condition was diagnosed as a tumor compressing the stomach at the greater curvature causing deformity of the antrum and dislocation of the pylorus and gravely compromising gastric evacuation Operation disclosed a cystic tumor compressing the stomach and dissoldenum but without adhesions Upon incision, the mass suggested a round cell sar come which was not removable. A gastro enteros

toms was effected with relief of the symptoms due to poor evacuation of the stomach and duodenum JOHN W BRENNAN, M.D.

Ashby, H T and Southam A H Splenic Anæ mia of Young Children Treated hy Splenectomy Brit M J 1926 : 411

Splene animum of young children, sometimes called you Jaksch silsease occurs in the first three years of life and is characterized by marked enlargement of the spleen and general debility. The condition is chronic and in advanced cases the prognosis is un favorable.

In the tratment the Vray, arsenic and iron have been found of little value. The authors report three cases treated during the past vear by splenec tomy praceded by roentgen irradiation and blood transitision. In all of these cases there has been apparently rapid improvement in both the general health and the blood picture.

I EDWARD BISITKOW M D

Whipple A O Splenectomy as a Therapeutic Measure in Thromhocy topenic Purpura Haem orrhagica Surg Gynec & Obst 1926 vli 329

The etiology of purpura hamorrhagica is not known the pathology ill defined and the differential diagnosis at times difficult. In the treatment, splen ectomy is done hecause in many cases of chronic purpura the spleen is enlarged and as the removal of the normal spleen results in an initial increase in blood platelets the procedure seemed logical in a disease characterized by a low platelet count. As the reticulo endothelial cells get rid of jaded or excessive blood platelets it seemed logical to assume that in a disease such as purpura hæmorrhagica in which the platelets are few or absent, some part of this system is overactive and if the overactive cells are largely limited to the spleen the removal of this organ would promise good immediate and prohably permanent results. On the other hand if the entire reticulo endothelial circle is involved splen ectoms would remove only a part of the overactive apparatus and in the presence of such a profound vascular disturbance as that in the acute form of purpura would be extremely hazardous

It appears that in purpura hemorrhagica the blood platelets are formed in normal numbers but are de stroyed by overactive phagocytosis in the spleen and other parts of the reticulo endothelial apparatus

Purpura hemorrhagica is characterized by five fairly definite findings (1) paucity or absence of platelets (*) a prolonged bleeding time (3) failure of the clot to retract (4) a normal clotting time and (5) the appearance of petechies in the skin of an extremity below a tourniquet applied to shut off the venous hut not the arternal flow

When once the diagnosis has been made it must be determined whether the disease is present in the chronic recurrent form or in the acute fulminating form The former type is usually cured by sphene. tomy promptly and permanently while the latter is seldom influenced favorably by it

Of eighty one collected cases eight were operated upon during the acute stage with seven deaths In seventy three cases of the chronic form there were only six postoperative deaths

HARRY W. FINA M D.

Mayo W J The Mortality and End Results of Splenectomy Am J M Sc 1926 civn 313

Before recommending the removal of a diseased spleen the phy sesan must satisfy himself that cure by medical measures cannot be expected and that the prospects of cure by splenectomy are sufficiently good to make the operation worth the immediate risk to the patient

The author's purpose in this communication is to analyze hriefly from the standpoint of operative mortality the experience with 417 cases in which splenectomy was performed and to comment on the after history of the patients as related to the opera

The spleen 1 a harmolymph gland which beloogs to the reticulo endothelial system and has three known functions Its first function is to filter from the blood stream micro-organisms and various toxic age its These it destroys or sends to the liver for de struction or detoxication The failure of the spleen to function as a filter results in its enlargement as in malaria and syphilis and the chronic toxic spleno

megaly of the splenic anæmia type

The second function of the spleen is to produce white blood cells one of the most important being the lymphocyte without which there would be no healing of wounds or repair in the hody. All of the white blood cells have defensive functions especially the large mononuclear endothelial leucocyte cases of leukæmia a malignant expression is manifested in the unlimited production of white blood cells which have the power of oxidation through their nuclear activities but are without function because of the lack of cytoplastic control

The third function of the spleen is to destroy worn out or deteriorated red blood cells a process in which bile pigments are found An unnecessary destruc tion of the red blood cells which produces the suh oxidation of anæmia is one result of excessive splenic activity due to an increase in the size of the spleen from any cause A specific action of the spleen on red blood cells is seen in its destruction of red cells with increased fragility as in cases of hamolytic ieterus and the destruction of the blood platelets which is characteristic of chronic harmorrhagie purpura Possibly the enlargement of the spleen in these two conditions as well as in certain other conditions is to some extent the result of work hypertrophy

Sufficient chinical experience is now at hand to demonstrate beyond peradventure that in a number of diseases which would otherwise prove fatal re moval of the spleen will effect a cure

The statistics of early splenectomy show that the mortality was formerly from 25 to 35 per cent The number of cases not being large it is fair to assume that the high death rate led to delay of operation until the patient's condition grew so serious that splenectomy was certainly more than justified as a last resort

A vicious eircle was thus established in which the high mortality brought about a delay responsible for a still higher mortality Operative methods in the early history of splenectomy left much to be desired but better technique of which Balfour's method of splenectomy is a fine example has greatly reduced the surgical death rate

From April r 1904 to January r 1926 splened tomy was performed in the Mayo Clinic in the fol

lowing 417 consecutive cases

	nortal ty	ţţ	nt
100	20	15	3
50	2		ŏ
147	7	4	8
10	3	30	0
10		•	
10	1	10	0
417	42	10	3
	100 50 147 10 10	mortal ty Cases Cases P 100 29 50 2 147 7 10 3 10 1	more Lases P rc 190 29 15 50 2 4 147 7 4 10 3 30 10 1 10

From this table it is seen that the average hospital mortality was slightly more than 10 per cent All of the deaths that occurred in the hospital without regard to the cause or the time are included. If one adopted the thirty day rule that is considered that if death took place more than thirty days after opera tion without surgical complication it was not an operative death there would be a marked improve ment in these statistics but unless an arbitrary method of classifying mortality is adopted the ten dency is unconsciously perhaps to improve the statistics Moynihan speaking of comparative statistics says Statistics can be made to tell any thing even the truth Certainly the method of computing the hospital mortality with the opera tive mortality at least gives the worse side of the

picture A survey of the foregoing experience demonstrates clearly that the removal of the spleen is compen sated for by the widespread tissues of the reticulo endothelial system of which physiologically the spleen is a none too important part. The diseases with which the spleen is concerned are complex and pathological processes are seldom primary in this organ it often acts merely as an agent of destruction

From the surgical standpoint it may be said that if the patients are properly rehabilitated and on the up grade as the result of proper methods of preparation the mortality of splenectomy will be less than , per cent

Expenence has shown that the spleen should never he removed for a chronic condition when the patient is on the down grade. The dangers of the operation are due largely to delay and an unfortunate choice of cases

Leotta N. A Contribution on the Surgers and Physiology of the Spleen Changes in the Blood Picture and Basal Metabolism Caused by Splenectomy (Contributo alla chirurgia e fisiologia della milza alterazioni ematologiche e del meta bolismo basale determinate dalla splenectonua) Inn ital di chir 1923, 31 1144

Leotta reports the case of a 13 year-old hoy who was subjected to splenectomy because of rupture of the spleen The operation was followed immediately hy a decrease in the red cells and hamoglohin but at the end of a month this was completely com pen ated There was also a leucocytosis chiefly a lymphocytosis, which reached its maximum in twenty days and then decreased slowly. At the end of eight months however, the number of leucocytes was still about 15,000 A slight temporary increase in the blood platelets and a slight increase in the resistance of the red cells were noted, but there was no change in the coagulation time. These changes showed a loss of splenic function and a disequilibrium hetween hæmatopoiesis and hæmatolysis hut were of haef duration and sufficiently compensated The child gained normally in weight and height in the eight months, and no anatomical changes occurred except slight enlargement of the lymph glands especially the cervical carotid and inguioal gland The basal metaholism showed a marked increase

The average basal metabolism in a boy of 73 years is from +38 to +40 while in the first four months alter the operation in the case reported it was +57 it then decreased progre (vely to +56 +32, and +57, and remained at +57 at the end of the eighth month. In discussing the significance of the increase the author urges further research on the endocrine function of the spleen and particularly the relations of this organ to the thyroid.

one organ to the thy rold

AUDREY G MORGEN M D

MISCELLANEOUS

Pateland Labry Large Closed Cysts of the Urachus (Contribution à l'étude des gros kystes fermés de l'ouraque) Gynec et obst 19 3 xii 449

There are three principal types of malformation of the allantos (1) an umbilicove ical fistula, representing complete permeability of the canal (2) a canal closed at the umbilical end but open into the

bladder causing a special form of diverticulum, (3) a urachus impermeahle at both ends forming a true cyst of the urachus. The authors report a case of the last type

The patient was a woman of 37 years who had always enjoyed excellent health. About three years before she came for treatment she had an attack of intense abdominal pain with yomiting which seemed to be an ordinary attack of indigestion. During the last year her abdomen had heen enlarging and constipation had developed. There were no unnary disturbances except increasing frequency of micturation.

On examination a diagnosis of large cyst of the ovary was made but at operation the cyst was found to lie in the cellular tissue outside the peritoneum and to involve the urachus instead of the ovary. The uterus and adness were normal. The cyst was not continuous with the hladder but adherent to it and some difficulty was expenienced in dissecting it free. The wall of the hladder was injured slightly that the mucous membrane was not opened. A few sutures were placed in the hladder wall and the cyst was removed entire. The peritoneum and abdom anal wall were then closed and a retention catheter was left in for four or five days. Uneventful recovery resulted.

Closed cysts of the urachus are rare the authors have tound only ten cases in the literature venfied by operation or autops. There are no pathogno monic signs. The most frequent erroneous diagnosis is cyst of the ovar. The condition usually causes general enlargement of the abdomen and sometimes causes pain. A cyst with a median position an elongated spindle shape and adhesion to the umbilicus has heen given as a pathognomonic sign but these characteristics are obliterated when the tumor hecomes large. However operation is indicated even when an accurate diagnosis is impossible.

The cyst should be extirpated since when punctured it refils rapidly. An attempt should be made to perform an extraperitoneal operation as usually very intimate adhesions are found and dissection requires more time than it is worth. No harm is done if the adherent parietal peritoneum is partially exceed. When the cyst is low, great care is necessary in its dissection from the hladder. Otherwise the operation is easy and without danger.

AUDREY G MORGAN M D

GYNECOLOGY

UTERUS

Vanverts J The Obstetrical Results of Shortening of the Round Liguments (A propos der résultats obstétricaux du raccourcissement des ligaments ronds) Bull Soc d'obit et de ginée de Par 1925 xiv 695

The author has performed eighteen operations to borten the round ligaments. In seven the ligaments were plicated intra abdominally. In three, they were fixed to the abdominal wall by the Duritgues method and neight they were fixed to the posterior surface of the uterus by the method of Dolens and Webster. In all but two cases the operation was performed for mobile retrofletion and it was necessary to free the uterus from addeasons.

Diffeen of the patients were re examined after an interval of not less than several months. In all the corrected position of the uterus was maintained and the menstrual and intermenstrual pain attributed to the retrofection had heen relieved. In one, the size of

the uterus bad been decreased

Four of the patients subsequently passed through normal pregnances. No time relation could be established between the operation and the occurrence of pregnancy but in the case of a patient who had previously aborted in the third month the course of pregnancy was probably influenced by the operation as this patient subsequently carried a twin pregnancy marily to term

When the uterus is fixed the Webster operation has the advantage of covering the raw surfaces produced by the breaking up of the adhesions. Although this operation causes considerable displacement of the adnera it does not seem to interfere with preg-

nancy

Vogt E Prolapse Operations and the Ability to Bear Children (Vorfalloperationen und Gebaer fachigkent) Zischr f Geburish u Gynaek 1925 lyvyv 118

ALBERT F DE CROST M D

After presenting communications in which it is recommended under certain conditions to perform sterilization simultaneously with an operation for prolapse (Doederlein Reifferscheid) the author states that at the Mayer Clinic operations for prolapse are regarded as permissible even during the age of child bearing but simultaneous sterilization is not approved

Operations recommended are antenor colpor rhaphy with suture of the bladder and the vest covaginal septum and colpoperincoplasty with suture of the levator an muscle. In these procedures the position of the uterus a disregarded

During the period from 1907 to 1923 ninety five women were observed who bore children after

an operation for prolapse. After the operation there is no interference with cohabitation conception of pregnancy. The first hirth following the operation occurred on the average after two years.

In a review of the course of labor attention is at tracted to the frequency of forceps delivenes. It is due to the fact that for the protection of the scar and the prevention of recurrence in occipital presentations the application of the forceps to the rotated head with simultaneous median incision of the scar is considered the best procedure. However, the figures show also that natural delivery is not made more serious for the mother or the child. The puerperium of the women previously operated upon was normal. The best protection against recurrence is restoration of the previous mendately after delivery.

Seymour II F Fndoscopy of the Uterus With a Description of a Hysteroscope J Obst & Gynac

Brit Emp 1026 xxx111 52

The instrument used by the author for endoscopy of the uterus is a straight brase tube 38 cm long with a 6 or 9 cm bore and a light at the distallend. Dues are three channels in the wall of the tube one for the rod which earnes the light and two which are eon nected with an electric suction apparatus. The direction of the instrument during its use is indicated by an aluminum handle. The tube with a 6 mm bore is for the postclimacteric uterus and cases in which dilatation to over room is difficult while the tube with a 9 mm hore is for general use

In the preparation of the patient for examination a glycerine tampon is placed against the cervit for two mights to aid in dilatation. The cervix is then slowly dilated to r. mm and the hysteroscope care fully introduced. A what ho is a sponge holder keeps the lamp clear of blood and is withdrawn when the instrument is almost to the fundus. It is re introduced only if the lamp becomes smeared. The suction apparatus is started before the introduction of the hysteroscopic.

The endometrium is sectionally scrutinized by turning the hysteroscope about and partially with

drawing and re inserting the lighted end

The instrument and technique described have the advantage of simplicity and have proved of aid in diagnosis and the removal of satisfactory specimens. The author believes that they will be found of value also in treatment. MAGNISP URVIS M.D.

Cron R S Chancro of the Cervix with a Report of Two Cases Am J Obst & Gyncc 1926 x1 378

The author reports two cases of chancre of the cervix especially from the standpoint of infection and diagnosis. One of these cases demonstrates the

infectiousness of gonorrhoea and syphilis before the appearance of symptoms The patient had sexual intercourse with male No 1 three days after he had sexual intercourse with a prostitute. Neither previously nor at that time did male No 1 have any symptoms or signs of venereal disea e Two days later the patient had intercourse with male No 2 Male No r developed a urethral discharge and eventually a hard chancre. The patient also contracted both gonorrheea and syphilis the latter manifested by a lesion in the cervix hut trans mitted only gonorrhora to male No 2 The author believes that the patient and male No 1 had ahra sions of the mucous membrane sufficient to permit the entrance of the spirochæte

Cron describes the characteristics of chancre of the cervix. This lesion must be differentiated from simple cervical erosions, chancroid herpes simplex tuberculous ulcer genorrheeal maculæ and car cinoma Simple erosion and carcinoma are the most

difficult to differentiate

The author's conclusions are the following

r The primary lesion of syphilis is frequently found in the cervix Its apparent rant; is due to the fact that it is frequently overlooked and rapidly undergoes involution

2 Routine visual examination of the cervix especially in freshly infected syphilitic women would demonstrate a higher percentage of primary

3 The spirochæta pallida may be transmitted hy conjugal relations in the absence of a macroscopi cally visible lesion in the transmitter

4 A negative blood Was ermann reaction during the primary stage does not rule out syphilis

5 The characteristics of the primary lesion on the cervix may vary so widely that a diagnosis can be established only by demonstrating the spirochata pallida with the dark field microscope or by microscopic examination of tissue excited from the lesion and positively, only by the demonstration of the spirochata pallida in the characteristic tasue

Mosher G C. The Incompatibility of Pregnancy and Fibroids of the Uterus 4m J Obs &Gyrec.,

Weiss, E A. The Treatment of Fibroids of the Uterus Am J Obst & Gynec 19 6 x1 343

Mosnez states that pathological changes in a myoma or fibromyoma associated with pregnancy are indicated by pain hamorrhage signs of degene ration a rise in the temperature or a high leucocy

If the tumor is situated at the hrim of the pelvis so that it will cause dystocia myomectomy or hysterectomy must be considered. Abortion is contra indicated on account of the increased risk of hæm orrhage traumatic injury and septic infection Mosher believes that the casarean section operation is done in many instances without a proper indica

The great majority of cases of fibroids associated with pregnancy run a favorable course after the danger of postpartum hæraorrhage is past tumor may disappear or become so small that it is no longer palpahle

Each case must be treated according to its particular requirements The results depend upon the judgment and skill of the obstetrician Mosher re-

ports seven cases

Weiss states that his attitude is decidedly con servative in uncomplicated cases of fibroids but that when complications are present he favors operation. When the preservation of the maternal and ex function is desirable removal of the fibro d hy myomectomy or resection is best. The calles most tavorably affected by arradiation are those of the bleeding variety Patients with diabetes tuberculosis or cardiorenal disease are usually treated best with radium. In every case for which radium treatment is considered, curettage should be done as a diagnostic measure before the introduction of the radium. In the cases of patients less than 40 years of age great care is neces ary in the use of radium in order to avoid causing a premature menopaule. In many cases of fibroid, operation may be safely deterred until definite indications are

During the past five years Wells has obtained year satisfactory results in a fair percentage of cales treated with radium but he still adheres to the gen eral principle that when there is any doubt operation

is the procedure of choice

In the discussion of these reports Weiss stated that in ca es of pregnancy an X ray examination with preumoperitoneum before the fifth month will outline the nodules of a fibroid tumor. The obstetrician can then determine whether any of the nodules will obstruct labor. After the fifth month, the \ ray will show the outlines of the fetus in the

In cases in which casarean section is neces are. Weiss is not in favor of performing hysterectomy at the same time unless degenerative changes are

MUSSE's reported that approximately 2 per cent of the women who come to the Mayo Clinic for treatment of fibroid tumors are pregnant. By conservative treatment under careful observation, practically all of these patients can be carned through to term Most of them are delivered spontaneously or with the use of low forceps or midforceps. Casarean sec. tion is necessary in only a very few cases

POLAK reported that in more than thirty years of obstetrical work he was only once obliged to perform an abdominal operation for obstruction of labor due to an incarcerated fibroid. Of late he has been performing partial resection of the nterus much more frequently than hysterectomy

SCHMITZ stated that in the large gynecological clinics there should be at least one member of the staff who is thoroughly trained in radiation therapy and that all radiation therapy should be under his supervision To refer patients with gynecological conditions to the radiologist is a mistake as the radiol ogist does not know how to treat them gynecologically and the expecologist cannot tell the radiologist how to treat them radiologically

RONZY reported that he has never seen a case of placenta pravia in a pregnant woman with uterine He believes that the only indication for operation for fibroid tumors during pregnancy is pain that cannot be controlled by large doses of mor LI CORVELL MID

ADNEXAL AND PERIUTERINE CONDITIONS

Daniel C A Study of the Interstitial Portion of the Normal Fallopian Tube (Lude sur la trompe interstitielle normale) Gynée et obst 1926 xiii 1

The study reported in this article was made on thirteen uters four of which were infantile and the rest adult. It was found that the interstitual portion of the tube is a separate entity in the adult uterus but up to puberty is more nearly like the uterine cornu The configuration of the lumen in this portion is less definite than that of the outer portion with its four large longitudinal place and varies in com plexity with age. In the senile uterus it is flat. In half of the specimens a 0 5 mm catheter could be passed

As the epithelium approaches the uterine ostium it becomes more uterine in type, and near the uterus there is a thin internal longitudinal muscle layer not present in the rest of the tube. The entire muscle here shows a greater connective tissue content. Also toward the uterine end especially in infants there may be gland like conformations of the plice and a small amount of cellular tissue resembling uterine

In the normal state the tube is closed and a pres sure of from 60 to 100 mm. Hg is necessary to dem onstrate its permeability. During menstruction its mucosa shares in the hypermmia of the neighboring endometrium and it becomes closed as it does also early in the course of pregnancy The similarity of the structure of this mucosa to that of the uterus explains how placentation is possible in this portion of the tube when the tubal mucosa does not share in the formation of the fetal envelope

The author suggests that the interstitial portion of the tube might be used for the medical treatment or surgical drainage of conditions in the outer part of the tube just as it is now used for in ufflation in sterilty and the production of pneumoperatoneum GOODRICH C SCHAUPPLER M D

MISCELLANEOUS

Focelson S J The Non Specific Antigenic Effect of Spermatozoa upon Fertility Surg Gynec & Obst 1926 xlu 374

Fogelson performed experiments on rats to de termine if possible a serological explanation for the type of sterility occurring in the human being which has no apparent anatomical or physiological basis In confirmation of the work of others he found that conception can be temporardy inhibited by sensitiz ing the female rat to any spermatozoa protein This antigenic effect is not specific for species equally good results can be obtained from the spermatozoa of any species

The mechanism causing the stenlity is still not clear only precipitins being definitely present and their significance an unknown factor. The role of their significance an unknown factor agglutinins may be considered negative since as marked clumping was seen in the sera of non sen sitized animals especially after inactivation as in specific sera I sins were never seen and towns which fixed or rendered the spermatozoa immobile were so variable that no opinion regarding them is justifiable from these experiments

The results cast no light upon the etiology of so called idiopathic human sterility but tend to eliminate protein sensitization as a causative factor and suggest the possibility of devising a contracep tive technique with a definite scientific basis

HARRY W FINE M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Mahnert A Studies of the Effect of Iodothyreo globulin on Diuresis and Metabolism in Preg nancy (Studien neber die Wirkung von Jodthyreo globulin auf die Diurese und den Stoffwechsel bei Schwangeren) 1rch f Gynaek 1925 CTTV1 1 5

Mahnert investigated the effect of thy road treat ment in various types of cedema in normal and diseased pregnant women by studying the metabolism following the intravenous injection of rodothy reoglobulin In only a certain percentage of the normal women were metabolism and diviresis in creased by the sodothy reoglobulin. The reason why a few isolated cases were refractory could not be ascertained

Pathological cases behaved similarly. In most of the cases the metabolism was increased to the extent that uric acid urea and sodium chloride were ex creted in increased amounts. Moreover, there was as increase in the cholesterin content of the serum with a simultaneous decrease in the albumin content followed later by a decrease in the cholesterin con

The author compares the disturbances of metab olism and water balance brought about in preg nancy by the injection of iodothy reoglobulin with the symptoms of hy pothy reosis occurring in the non pregnant state and agrees with the theory first ad vanced by Knaus that the function of the thyroid is decreased during pregnancy This accounts for the good effect of thyroid medication as well as of todothy reoglobulin injections in such cases and for the fact that evidences of hyperthy roidism are never noted subsequently In the cases in which the thy roid treatment seems to have no effect it may be slow in its action or the efficacy of the thy roid prepa ration may be diminished by the acidosis occurring in pregnancy The activity of the hormone depends upon the degree of acidity of its environment

In conclusion attention is called to the similarity of the sequelæ following the administration of thy roid substance and those following the loss of weight at the end of pregnancy The latter are attributed to increased function of the organs of internal se cretion especially the thyroid of the child

WERNER (G)

Dujol G and Clement R Spontaneous Rupture During Pregnancy of a Uterus Previously Sub jected to Cæsarean Section (La rupture spon tanée pendant la grossesse de l'utérus antérieurement césarise) Rer frinc de evnéc et d'obst 1925 1 5 9

The authors have collected twenty six cases of spontaneous rupture of the uterus in patients who had been subjected to casarean section

Statistics of France America, and England show that uterine runture occurs after cæsarean section in from 3 to 4 per cent of the cases, but these statis tics include also ruptures occurring during labor

The authors estimate the incidence of runture before labor at 1 56 per cent. The symptoms are classical A sudden sharp pain in the abdomen which may or may not cause syncope is followed by the less rapid appearance of the signs of intra abdominal hamorrhage Frequently there is com iting On palpation, the abdomen is tender particularly in the iliac fossa The uterus is not well mapped out but the fetus seems to be felt under the skin and presents abnormal mobility. A few hours after the runture abdominal meteorism is present. On auscultation no fetal heart is heard

Sections of the ruptured scar show an intense vascularization with traces of an old infection. When the placenta has been inserted at the scar syncytial cells are found. The author reviews the theories as to the causes of weakness of the utempe scar

Prophylactic treatment consists in watching pa tients who have been subjected to cresarean section and admitting them to the hospital before labor begins If a conservative operation is possible, the Portes technique is indicated but in the attempt to be conservative care must be taken not to expose the nationt to any unnecessary risks. When haste is necessary on account of the patient's poor condition the Porto operation is indicated A supra cervical hysterectomy may then be performed later SALVATORE DI PALMA MI DI

Rupture of the Uterus During Preg Riddel J nancy J Obst & Gynas Brit Emp 19 6 TXVIII I

Rupture of the pregnant uterus before labor is exceedingly rare. It may occur in diseased degen erated or previously injured uters as the result of indirect violence. It may be caused also by interstitial pregnancy a new growth, hydatidiform mole weakness of a casarean section or other scar or pregnancy in a rudimentary uterine horn matic rupture may be caused by sounds curettes bullets crushing or direct violence

Runture of the uterus is more common in women who have borne a number of children than in women pregnant for the first time because repeated pregnancies cause degeneration of the wall of the uterus Infantilism is rarely an etiological factor as women with an infantile type of uterus are usually sterile

Tears occurring before labor are usually found in the anterior or posterior wall or at the summit of the fundus. They may be longitudinal transverse or oblique They are usually linear but sometimes irrigular If contractions occur, the laceration en larges allowing the escape of the fetus into the peri

When the turning has been completed the lock of the forceps lies close to the perineum and holds in place. It is not necessary for an assistant to hold this blade while the other is being applied.

To apply the posterior blade "to' fingers are inserted into the vagina between the posterior cervical
lip and the fetal head and with the other hand the
posterior blade is inserted between the fetal head
and the cervix under the control of the fingers. When
he forceps are locked they he in the anteroposterior
diameter of the pelvis. Traction on the head is made
in the direction of the handles slightly more down
ward than upward. As the hand goes deeper in the
pelvis its rotation is spontaneous. If rotation his
not taken place it can be accomplished with the
forceps. Before extraction through the outlet is
begun the sagittal suture should be perpendicular
to the pelvic outlet. ROAND S CON VID.

Ferrère M A Case of Serious Ectampsia During Labor Fourteen Convulsions and Sifeht Loss of Consciousness Injection of 12 Ctgm (18 Gr) of Morphine (Upper Limit) In Ten Hours Low Forceps Delivery After Epistotomy for Atress of the Vulna Delivery of a Living Infant Weighing 3 150 Gm. Cure of the Nother and Survaria of the Infant Eckampue grave du travail axee 14 crass et attente legère de l'intellect injection de douce centigrammes de morphine—Palond morphinque—en chi heurs forceps la vulc après vanté de 3, kilos 150 puerton de la mêret suns de l'enfant? Bull voc d'obst ci de 3, inc de Par 1925 31 500

Important in the treatment of eclampsia with morphine is an exact knowledge of the quantity of morphine which should be given to produce a cure There is no advantage in giving more than that amount. When the convulsions continue in spite of massive does at its well to know at what point injections should be stopped. The maximum bene ficial dose of morphine is 12 ctgm. But more can be given to an eclamptic, without danver.

The effect of morphine on the nervous system is sometimes gradual. In the case reported by the author the occurrence of three convulsions after the final dose did not alter the originally Javorable prognosis Between the convulsions the patient recovered consciousness. Ordinarily no such recovery occurs after the first three or four convulsions.

after the first three or four convulsions
The morphine was administered in divided doses
14 etgm after each crisis

ALBERT I' DE GROLT M D

PUERPERIUM AND ITS COMPLICATIONS

Wuesthoff if A Review of Puerperal Deaths in the Last Twenty Six Years (Kntik der puerperalen Todesfaelle der letzten 26 Jahre) Monatsekr f Ge burtih u Gynoek 1923 [vx 189

In the University (vnecological Clinic at Koemisberg the total puerperal morbidity averaged 14 per cent including all cases in which the temperature

rose to 38 degrees C, even those in which this nelasted only on, day In spite of the increase and eventual tripling of the number of births the an nually, calculated percentage fell from 50 per cent in 1906 to 13 5 per cent. The improvement is due to modern methods of disinfection the more extensive use of rubber gloves even in simple vaginal examinations of preparat women increased knowl edge the institute of fever in pregnancy, early and the control of the control of the control of the of the indications for obstetrical operations of care with regard to the vaginal flora particularly hemolytic strentococci.

In the cases reviewed there were sut; three deaths a pure-peral mortality of o 3 per cent. Nine teen of the women who died were known to have been infected before they entered the clim? Of the forty four others ten had an autogenous infection from an extragental focus. In the thirty four cases of hospital infection there was a mortality of original per cut and in twenty of this group of cases a more or less serious op rative procedure was necessary of the four delivery.

Fobes J It and Fraser W A The Treatment of Puerperal Infection Hahneman Month 1926 by 149

For cases of pueppral infection the authors adoccate the administration of ergot or pitutim and drainage by elevation of the head of the bed and the sem sitting position of Fowler. Intra uterna douches and manipulations are of no avail because the bactena are within the tissues and beyond the reach of chemicals or instruments. Efforts must be made to prevent a bactenama by limiting the infection and securing a parametric evudate or localizing the pelvin pertinoits.

In parametritis body rest and tissue rest are indicated II the evidate becomes purilent and an
abocess forms the authors incise and drain. In
abocess forms the authors incise and drain. In
cas so forbad ligament abscess the best results bave
been obtained by opening the abdomen through a
a supplementary, incision to locate the abscess making
a supplementary, incision over the inguinal canal
passing a bluth bemostat through the inguinal ring
down between the folds of the broad ligament to the
abscess sewing a rubber tube in place and then closing the Pfannenstel incision and irrigating duly with
Dakin a solution.

Mercurochrome acriflavine gentian violet, and milk injections have not proved of value. Infection is urrested most quickly by the development of a hyperleucocytosis. This result is best obtained by the transfusion of normal or immunized whole blood.

In the author, clime the transfusion of whole blood is preferred because of its simplicity its absolute writety and its definite effects in restoring the bulk of the circulating blood providing oxygen and nournament for the tissues stimulating the hamatopoetic organs and supplying hamoglobin crythrocytes and leucocyte. Blood transfusions should be given early instead of as a last resort. They should also be given fre quently, but the quantity of blood transfused at one time should not exceed 300 c cm.

ROLAND S CRON M D

NEWBORN

Dickey L B A Study of an Epidemic of Impetigo in Newborn Infants Arch Pediat , 1926 xlm 145

In eighteen cases of impetigo occurring chiefly in newborn infants in obstetrical numeries cultures from the blebs showed streptococcus facealis staphylococcus aureus, and staphylococcus allies. The period of incubation is supposed to be less than three days. In some of the cases, the lesions developed in one day. Many solutions and utensits were found contaminated with organisms of the same type. Oils in particular and stock hone acid solution are dangerous, as they are often contaminated and allow free growth of the organisms. Bore acid solution is more dangerous than valuable. Oils should be kept in sterile containers and resterilized after use. Tap water was found infected, probably from noziles etc. Soap also may carry the bacteria.

The primary case may have been in an infant in the children's ward nursery. The infection may have been carried to the obstetrical nurseries by internes staff doctors nurses or others After it was established in the nurseries it was probably transmitted from patient to patient through the medium of the nurses' bands solutions and articles in common use it is important that hoth internes and nurses should have had careful training in asepsis before they work in nurseries.

At the outhreak of an epidemic all of the habies in the ward should be inspected from head to foot Those showing any signs of the disease should he kept in the original ward and the remainder who have been exposed should he placed in another room New arrivals after that date should he kent either with their mothers or in a third room There must be no possible contact with either infected cases suspects or the nurses who have had charge of cases. As members of the exposed group develop the disease they should be transferred to the original infected nursery Obstetrical wards where babies are brought to nurse should he guarded from contamination There should be prompt isolation of all other infections especially frank pus cases

In the treatment, bichloride of mercury and al cohol baths are of value but not sufficient in them selves Opening and cauterization of the blobs with silver nitrate and the use of the ordinary antiseptic solutions is satisfactory.

GOODRICH C SCHAUFTLER M D

GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

A Study of Some Cases of Hyperne phroma Boston If & S J 1926 CTCIV 471

Chute reports the results obtained in forty three cases of hypernephroma thirty one of which were operated upon hy him and six hy other surgeons Six were not operated upon All of the patients who were not operated upon died and five of those treated surgically died of shock. In five cases only an exploration was done removal of the kidney being contra indicated because metastases were present or the organ was fixed. Ten patients subjected to opera tion were living from two to nineteen years later

The chief symptoms of hypernephroma are hæmaturia pain and a mass in one loin. Hæma turia was present in thirty three of the cases oper ated upon pain in twenty seven and a mass in twenty seven. The hamaturia may be painless and very scanty Slight pain may be caused by disten tion of the capsule and more acute pain by bæmor

rhage with distention of the pelvis

An early diagnosis is most important. The pa tient must be examined at the time of the bleeding The findings of an examination made during the quiet period are not conclusive. The \ ray exam ination must include the kidney outline. An irregu lar contour bulging at the center and a knob at one pole are suggestive. The pyelogram usually shows an abnormal pelvis. As the majority of the forty three cases repor ed by the author were ex amined late the mortality was high

Chute exposes the kidney through an anterior incision through the outer border of the rectus This permits exploration of the peritoneal cavity for metastases gives more room at the pedicle than the usual incision and facilitates the recognition of anomalous vessels Drainage may be established through the loin or through the abdominal wound

CLAUDE D PICKRELL M D

Cirillo G Bacteriological Studies of Cases of Peri renal Suppuration (Recherches bactériologiques sur quelques cas de suppuration penrenale) J d urol méd el chir 1925 XX 462

From a bacteriological study of five cases of acute suppurative permephritis the author concludes that as a rule this condition is caused by bacteria whose usual habitat is the intestine but that like appen dicitis it may be caused by different species of bac teria sometimes alone and sometimes associated with other species. In the majority of cases the in fection is polymicrobic Anaerobes play an impor tant part Among the e the baculus perinagens and the micrococcus feetidus are the mo timportant prob ably because in comparison with other species they

are capable of adapting themselves more readily to the new conditions in the perirenal tissues AUDREY G. MORGAN M D.

Mereler O The Pathogenesis and Treatment of Slight Idiopathic Hydronephrosis (A propos de la pathogénie et du traitement des petites hydroné phroses dites sans cause apparente) I d'urol méd et chir 1025 XX 467

The author reports twelve cases of idiopathic hydronephrosis and includes in his article three roentgenograms The great majority of such by dro nephroses are caused by adhesive bands producing fixation of the renal pelvis and the juxtapelvic part of the ureter and associated with slight ptosis of the kidnes. For some unknown reason the position of the kidney is lowered 1 or 2 cm. The part of the ureter nearest the pelvis being fixed by the bands the pelvis becomes either horizontal or oblique from within outward and from above downward and its outlet is upward Because of this abnormal position the force of the contractions must be increased for normal emptying This effort finally decreases the contractile capacity of the kidney so that the urine

tends to accumulate in the depression

Surgical treatment should be conservative. Ne phrectomy is contra indicated because there is only slight distention of the pelvis the function of the kidney parenchyma is intact and the condition is frequently bilateral Pyeloplasty and anastomosis between the ureter and pelvis are not very effective To relieve the intense pain that is often present Papin has proposed resection of the nerve tracts supplying the kidney Complete section of the nerves will stop the pain but is a delicate operation involving danger to the blood vessels if there are pelvic adhesions and as yet has not been performed for a sufficiently long period of time for its effects on the kidney and pel vis to be known. In animals it seems to cause atony of the pelvis On the other hand high neph ropery with liberation of the ureter is simple and effective and a logical operation since it establishes a normal position of the pelvis with relation to the urcter

In all of the cases reported by Mercier recovery was complete and permanent

AUDREY G MORGAN M D

Laquière M Serous Cysts of the Kidney and Con servative Operation (Kystes séreux du rem et opérations ronservatrices) J de chir 1925 XXVI

The author gives the bistories of five cases of cysts of the kidney This is a rare condition as only rio other cases have been reported in the literature

Brief notes of the other cases are given

Serous cysts of the kidney have no pathognomomes signs and are generally first diagnosed at operation. The pain varies in type and has no special character istics which differentiate it from the pain of conditions such as nephritic, hepatic, and gastric colic appendicitis and salpingitis. If a tumor is palpated, it may be in various situations if the kidney is mobile, and even if it is at the normal site of the kidney its nature cannot be determined. The urine is generally normal.

The usual treatment has been resection but in the author sopinion this operation is contra indicated as the parenchyma is generally normal. It should he done only when the kidney is diseased. For all other cases the best operation is collar resection. This is an easy operation with no mortality, while the mortality of nephrectomy is about 30 per cent

Collar resection consists in puncturing the cyst and aspirating the liquid opening the cyst, and making a circular section in its wall along the line where it emerges from the parenchyma of the organ. In this way a collar of the cyst is removed and the part which is untimately connected with the kidney paren chyma is left. It lines the depression where the cyst was lodged. No attempt should be made to remove it, at most, it should be curetted and cauterized Some surgeons dislike to leave a part of the cyst, but there is not the slightest danger in doing so as the cysts never recur or degenerate

AUDREY G MORLAN M D

Condamin Vitiation of the Results of Nephrectomy for fullateral Tuberculous by Tuberculous Lesions Outside the Kidneys (Des tares apportics aur resultats de la néphrectomie pour tuber culose unilatérale par des localisations tuberculeuses extra rénales) J durol méd et chir, 1936 van

The mortality from tuberculosis of the kidney is still high if the late results are considered. The high late mortality is generally explained by the development of a tuberculous lesion that was already present at the time of the operation. This is suggested by the fact that the figure diminishes with the lapse of time after the operation, being 3r per cent at the end of three years and 14 per cent at the end of seven years.

The author has collected 172 cases of unlateral tuberculoss in which nephrectomy resulted in a permanent cure in 69 per cent. These were cases with no extrarenal lesson. In a group of fifty, three cases with extrarenal lessons, complete recovery resulted in only 47 per cent. Bone lessons have the less effect on the mortality of nephrectomy. In eighteen cases with bone lessons, a complete recovery resulted in 69 per cent in twelve cases with gential lessons at was obtained in 59 per cent and in twenty one cases with pulmonary lessons it resulted in 70 per cent. Therefore while gential tuberculosis has a marked effect on the late results of nephrectomy, the lesson most to be feared is a pulmonary lesson most to be feared is a pulmonary.

There are a few cases in which nephrectom; seems to benefit the pulmonary lesion, but these are rare

Cases of renal tuberculosis may be divided into three groups. In the first group are those in which there was no lung complication before operation and in 4 or 5 per cent of which pulmonary disease de velops afterward.

In the second group are those in which a few discrete lesions have been present but have disappeared or remained latent for a long time, and pulmonary tuberculosis develops after the operation in

from 10 to 15 per cent

In the third group are cases in which there is mani fest tuberculosis at the time of operation and the de cision as to operation is difficult. If the pulmonary lesions are clearly progressive with fever night sweats etc. operation should not be considered. If operation is performed because of intense pain from cystitis or the danger that a large suppurating kidney may break down miliary tuberculosis of the lungs or meninges may develop If the lesions are quies cent and not very extensive at the time of operation or if they are localized in one lung and caseation has not begun operation may be performed if there are reasons for it such as those mentioned, but in such cases the mortality is between 40 and 50 per cent. In the third group of cases operation should be per formed only if it is urgently indicated

AUDREY G MORGAN, M D

Commenge and Pasteau Deaths from Nephrectomy for Tuberculosis Based on the Constant (Morts par nephréctomie pour tuberculose sur la constante) J d'urol mid et chir, 1925 vx 492

Commenge reports three cases of early death after nephrectomy for renal tuberculosis His statistics cover sixty two cases of primary nephrectomy for renal tuberculosis performed by the lumbar route with nine deaths from one to nine days after the operation Except for one death from embolism on the twenty third day that of a woman in very poor condition these were the only cases of very early death Three deaths in four (75 per cent) were due to uramia. This percentage is almost the same as that of Legueu and Chevassu for operative deaths and that of Israel and Boeckel for late deaths As Rafin wrote in the "Encyclopedia of Urology," urmary insufficiency and anuria to which Pousson in 1000, attributed 41 per cent of the deaths, hardly enter into recent statistics at all

The question as to whether the unæmia could have heen prevented is discussed. It is possible that it might have been in Case 1 in which it was latent and the azotremia and the constant had been lowered only by a very strict dief. Operation is very uncertain in such cases as the unæma may recur on the slightest provocation but in Case 1. Commenge was surprised.

at the rapidity of its development

Its evolution in Case? he could not understand Before the operation the azotæma in this case was o 53 and the constant o 100 the left Lidney increased its urea concentration to 245 and yielded 147 gm in two hours. Although the water function was excellent, the patient died at the end of fifty hours. In Case 3 there was some uncertainty as to whether the urine labeled from the left hidney came from the left kidney came from the left kidney or from the bladder but the zzotamus was o zo and the constant or oofs. This was neom patible with a blateral lesson and all of the clinical signs indicated a lesson on the right side. Neverthe less nephrectomy performed on the indications even by the constant was followed by death.

The constant has rendered Commenge great service in more than ninety nephrectomies but be calls attention to the fact that the surgeon and urologist should be on their guard against drawing incorrect conclusions in the cases of patients subjected previously to a low nitrogen diet.

AUDREY G MORGAN M D

Ibuka K Function of the Autogenous Kidney Transplant 1m J V Sc 1926 clvu 497 Ibuka K Function of the Homogenous Kidney Transplant Am J V Sc 1926 clvu 420

From the results of extensive animal experimenta ton the author concludes that the successful autog enous kidney transplant in the neck of the dog functions for months in a practically normal manner while coexisting with the normal kidney in the ab domen and maintains the animal in good health for a fairly lonk time after the excission of the other

kidney

When a kidney is transplanted to the neck it can there he studied with regard to certain renal functions as well as with regard to its own physiological activity Analysis of the urine from the transplant and various functional tests made simultaneously with an investigation of the normal kidney in the abdomen or after the rumoval of the latter showed fairly normal kidney function. After ablation of the other kidney an apparently compensatory activity of the transplant was observed. It is evident that the nerve supply to the kidney and the ureter plays a minor and unessential part in renal function since the transplanted kidney functioned equally well in the new location and the renal pelvis and ureter even showed increased peristalsis The ultimate failure of function of autogenous kidney transplants trans planted successfully to the neck and functioning there for a fairly long time seems to be caused by hydronephrosis and infection due mainly to mechani cal insult in the new location

Having established a given technique in his work on autogenous kidney transplants the author experimented also with homogenous transplantation. The surgical technique ind postoperative treatment were the same as in the previous experiments. The function of the homogenous transplants in the neck in association with the kidneys of the recipient was observed. This was found to continue for a few days after the transplantation and to end in necrosis or softening of the transplant. Chemical and functional tests proved that the homogenous transplant for a limited time but its function soon changed and final lig ceased whereas the autogenous transplant is

covered and assumed normal function at a time corresponding to that at which the homogenous transplant failed Study of specimens of the homogecous transplant revealed that the transplanted kidneys were affected at first by nephritic changes of the paracchyma such as cloudy swelling and degeneration of the tubular elements and then by marked nephritic processes in the renal tissue show marked as the renal tissue shows the processes of the renal tissue shows the rena

The great difference in the length of survival and the functional behavior of the homogenous transplant as compared with the autogenous transplant in experiments performed in the same manner cannot be attributed simply to the surgical and mechanical factors of the op ration. In the authors copiumo, it is due probably to some as yet not understood under bying biological factor in homogenous transplants ton.

Papin M Anuria for Seven Days After Catheteri zation of the Ureters (Anurie secretoire de sept

jours après un cathétérisme des utetères) d'uroi méd el chir 1925 XX 503

In the case of a man 38 years of age a diagnosis of the left kidney was made and the uteters were catheterized on June 20 rogs. The amount of unne collected during a period of two hours was normal but on withdrawd of the catheters urnation stopp d and in spite of medical treatment no urne was passed for a week. Signs of urnam were noted but just as the author was preparing to per form a nephrostomy, the patient passed of one of the formal and therefore he urnated normally properly one of the left kidney developed suffering and the section of the left kidney developed suffering and on July 20 Papin was obliged to perform a nephrectomy. The patient recovered and is now well

In discussing this report Cirryassu said that he has long contended that catheterization may irritate the ureters and kidney and considerably impart kidney function and that although it is valuable and necessary in some cases it should be performed

only on strict indications

PASTEAU and Micitor reported that they had never seen anura following catheteration of the ureters. Michon stated that the putient should be kept in bed after the procedure and that if he had been treating Papin's case he would have tried an other catheterization and lavage of the kidney pelvis to overcome the anura. Aupray of Moscaw M D

Bochringer K. Ureteral Stone Non Operative In strumental Removal (Ucher Uretersteine un blutige instrumentelle Entfernum_o) I rhandl d d utsch Gesellsch f Urol 1925 p 91

When a ureteral stone is not too large its removal

or expulsion should be effected if possible through the natural pathway. As operation is not infrequently followed by recurrence or scar stricture ausing the development of hydronephrosis every fiort should be made to avoid it

In fifteen of thirty two cases of ureteral stone seen the Dresden Johannstadt Municipal Hospital the tone was removed hy the natural passage. In welve an operation was performed and to eight the procedure has not yet been decided upon

In seventeen cases from one to three catheters were introduced simultaneously to stretch the urger atch the stone between the catheters and pull it but. In five cases this procedure resulted in the imnediate removal of the stone and in three hy its pontaneous descent several hours later. In nine

ases operation was necessary

Since the verv strong contraction of the ureteral wall around and in front of the stone constitutes the the dostacle to the descent of the stone the author has devised a special dilating instrument. This convicts in a 5-cm director to be slipped past the stone and a dilator with four steel hands, which can be dilated into a basket of about 30 Charmere circum ference. The author has used the instrument twice up to the present time once with immediate success and once with an uncertain result.

Since the conservative management requires great patience on the part of the patient it has been found neces are to operate more frequently than the

author desired

Flons M Obluteration of the Ureter in Gynecological Practice and the Resulting Hydronephrosis (Sull obliterazione dell'uretere in rapporto alla pratica ginecologica e sull'idronefrosi consecutiva) Rri Idd il gine 19 2 w, 32

HOFFMANN (Z.)

The ureter is frequently injured in gynecological practice, particularly in Wertheim's panhysterec tomy for cancer of the cervix. The author reviews the various methods of repair and concludes that the best method is implantation of the ureter into the bl..dder. This is possible however only when the ureter is sectioned close enough to the bladder so that the proximal segment can he implanted without too

much stretching

The next hest method and one which is always practicable and quick is closure of the untert. While this causes by dronephrosis and has been compared in its effect to nephrectom, it hrings about slowly and by a purely functional mechanism the result which nephrectomy accomplishes anatomically and at once and the effects on the organism of low uppression of function of an organ are by no means the same as those of its sudden removal. Nephrectomy is absolutely contra indicated unless the other kidney is normal and when a urter is injured to the course of a gynecological operation the surgeon may not know whether the other kidney is infact or not

If the o her ladney is diseased ligation of the uneter does not subject the patient to the same danger as nephrectom. In fact it is known that renal function whose suppressed by a hydrooephrovis may be re-established even in excess when the stagnated unne begins to flow again. The development of a

permanent and irremediable injury of the kidney re quires some time. When the lesson of the epithehum is not too far advanced there may be regeneration of the tuhules. In experimental work the epithehum of the uninferious tubules presented no signs of de generation a month after ligation, at most they showed sumple atrophy from compression.

Various methods of occlusion may be used if they are practiced with due caution. The author prefers tying the ureter with a band of tendon or peritoseum from the lumbar region with peritorization of the stump to prevent adhesions. It is evident however that the method must he adapted to the conduction in the given case. AUDREY GIORGUS MD

BLADDER URETHRA, AND PENIS

Rejsek J An Unusuat Case of Rupture of the Bladder During Cystoradiography (Un cas rare de rupture de la ves ie au cours de cystoradiographie) J durol med et chr 19, xx 382

Rupture of the hladder is generally caused by external volucinc sustained when the hladder is full but when there is a pathological change in the hladder walls. It may occur from internal pressure Rejsel reports a cale of the latter type in a 68-year old man with symptoms of intense cystitis. Cystoscopy performed because a calculus was suspected showed that the capacity of the hladder was only it can and intense acute inflammation of the mucous membrane. As no cause for the cystitis was found a roentgenogram was made after the injection of 120 cm of 30 per cent sodium hromide and 2 per cent alvpin. The patient immediately expenenced intense burning pain and a desire to unnate

The roentgenogram showed the hladder surmount ed ht a crescent-shaped shadow the concave side of which was connected by a pedicle with the hladder shadow. The lower concave surface was jagged while the upper convex outline was smooth. This shadow was due evidently to the pervesical subpertioned extravasation of the contrast fluid.

The patient refused operation hut the next day his condition was much less favorable and only 70 cm of urine could be obtained on catheterization. This finding and the signs of peritoriatis and duliness on percussion in the hypogastrium showed that a continuous extravasation of urine was taking place into the subperitorial space. A supraphilie incision was therefore made and the urine sponged out. There was no hemorrhage. The opening in the hladder wall could not be found. A Freyer tube was placed in the hladder and the space and the space of Retizius were drained. Partial suture of the aponeurous and skin was then done. The patient recovered hut the doon afterward of pneumonia.

Undouhtedly in such cases there is a pathological change in the bladder wall. Even slight over-distention on injection leads to contraction of the hyper trophed muscle and violent contractions cause an increase in the intravesical pressure and rupture of

the bladder as the result of the decrease in the elasticity of the wall. The roentgen picture in the author's case was interesting as the convex line of the crescent showed that the effusion of liquid was extraperationeal. If the rupture had been intrapent toneal the effusion would have been diffuse and scarcely visible because of the small amount of fluid in such a case it is not necessary to lose time booking for the opening in the bladder wall suprapulic cystostomy is sufficient. Aubrary G Moosan M D

Bazy P Absence of a Shadow in Roentgenography for Vesical Calculi (Note sur l'absence d'ombie à la radiographie dans les calculs de la vesse) J d'urol méd et chir 1925 xx 369

In his operative notes for November 22, 2809 the author finds a note in regard to a case in which a lithorthiptor was introduced and a roentgenogram then taken. A stone was suggested rather than seen clearly between the hiades of the lithottriptor. As it is often difficult to see the shadow of a vessel eal culus. Bazy conceived the idea of studying the shadow seen between the blades of the lithortiptor in such cases and upplying the knowledge thus gained to other eases of possible vessel calculus.

He describes three cases in which roentgenograms were taken by competent roentgenologists and pro nounced negative for stone in the hladder but in which he could make out a very faint shadow and his diagnosis of stone was confirmed by operation in one case the shadow he saw was the same in size as the distance between the bladders of the lithout the country of the same of the shadow has the same in size as the distance between the bladders of the lithout the same of the bladder.

Wallace W J Unusual Bladder Obstruction J Urol 1926 xv 325

The author reviews the literature on obstruction of the neck of the bladder and reports an unusual case

His patient was a laborer 64 years of age the father of four grown children. He was admitted to the hospital complaining of frequency of urnation strang ury and partial incontinence. His history was negative except that he stated that he bad had some difficulty with unnation all his life. During the last vear the symptoms he complained of at the time of his admittance to the hospital had become steadily more severe. On account of his age and the nature of his symptoms he was prepared for a two stage prostatectomy.

The cystotomy was done under local amesthesia When the second stage of the operation was under taken three weeks later no intraceatal hulging or enlargement was found. Instead there was what appeared to be the wall of a ruptured cyst which was believed to bave been broken during the operation. The bladder was closed in the usual manner but when healing was complete the difficulty in urnation returned. Sounds were passed into the bladder

readily hut catheterization of the bladder was fre

Cystoscopic examination at this time was unsatis factory. It was necessary to depress the ocular end of the cystoscope in order to throw the light over the prominence eausing the obstruction. A small mass as made out in relation to the left ureteral orifice. As profuse bleeding occurred during the cystoscopic examination, a tentative diagnosis of multiple small vesical tumors was made and open exploration of the hladder was recommended.

Operation revealed no tumor but instead a thin fibrous partition or diaphragm extending along the interureteral ridge This was a firm thin membrane about 1 in in height extending from a point about 35 in to the left of the internal sphincter backward just behind the left ureteral orifice and across on the interpreteral ridge and terminating just short of the right ureteral orifice. This diaphragm divided the bladder into two portions each of which was capable of holding a considerable amount of urine When the patient strained the partition came forward and practically occluded the internal urethral orifice The septum was grasped with forceps and removed with the electric cautery. The patient made an un eventful recovery and since the operation has had no urinary difficulty at all

The author has been unable to find any similar case reported in the literature. The condition differs from the hourglass bladder and the double bladder into each half of which a ureter empties. CLAUDE D. HOLMES M.D.

Scheele k. Granular Cystitis Nodular and Cystie (Die Cystitis granularis nodularis und cystica) Verhandl d deutsch Gesellsch f Urol 2025 p 255

The author discussed siesce of the unnary hlad der which is not tuberclos but forms nodules very similar to tubercles. The cycloscopie picture shows numerous nodules which may occur singly in the region of the trigone and ureters or are found closely pressed together or in groups scattered over the entire surface of the bladder. The mucous in the numerical terms where the conditions of the conditions of the conditions with tuberculous. Heyond this reddened area bowever there is no macroscopic evidence of inflammations. Some of the nodules are grayab brown and transparent others which are lighter colored and sometimes larger have a water transparent content.

The nodules vary in their elevation sometimes scarcely reaching above the level of the mucous membrane and sometimes being distinctly bein spherical Occasionally the mucous membrane of the bladder particularly in the tingone shows a change toward smoothness so that the markings of the blood vessels are entirely lost and the membrane bas an opaque grayash white appearance. The edges of this smooth area show reddening marked injection of the blood vessels and not rarely, a few modules

The author has named this syndrome cystitis granularis He has found it most frequently asso cated with a chronic cystitis which often had evisted, with remissions, for ten years or longer and had been caused by gonorrhice or a strong genital dischurge or had developed as an obstetrical complication. In any event there had been formedly a severe infection of the bladder, but at the time of the granular cystitus this was no longer present in an acute stage. The patient complained of itching and stabbing pain in the bladder, tenesmus pain at the time of urnation, and urgency of urnation. In spite of this the urne was usually clear or only faintly cloudy

Bacteriological examination revealed staphylo cocci or streptococci in fourteen of thirty three cases bacillus coli in eleven, and a mixed infection of bacil lus coli and couci in two. The histological appearance of excised nodules justifies the classification of the cases into those of cystitis nodularis and those of cystitis epitheliaris Cystitis epithelians may be further divided into the so called "epithelial nest of von Brunn" cysts, glandular structures and leu coplakia The conception of the pathologist that the infection and inflammation play an important role in the production of the lymph nodules as well as the epithelial nodules and cysts coincides with the author's clinical experience. In addition to inflam mation of the hladder, chronic pus infections of the pelvis of the kidney and purulent infections of the genitalia play important roles ROSENBURG (Z)

GENITAL ORGANS

Shaw, E C Epidural Anæsthesia for Perincal Prostatectomy An Experimental and Clinical Study with a Report of 100 Consecutive Cases J Urol 1926, 3v 210

The anatomical arrangement of the nerves supplying the prostate and contiguous structures is such that all may he hlocked by a single injection of anesthetizing solution through the sacral hiatus into the extradural space. Anasthesia produced hy such an injection has heen termed by different surgeons epidural 'extradural,' "caudal," and 'sacral' anasthesia.

In the author's cases transsacral injections and local infiltration were not used

Morphine was given alone as a preliminary sedative in seventy three cases and in combination with scopolamine in thirteen cases. Nine of the patients received no preliminary sedative. The injections were made with the patient in the ventral position. In ninety cases the anesthetic was procaine, and in ten, novocain suprarenalm. Blood pressure determinations and pulse and respiration counts were made at five minute intervals from the time of the injection of the anesthetic until the operation was completed. The blood pressure proved to be the best indicator of the patient's condition.

It was found that from 15 to 20 cm of the anæsthetic completely filled the extradural space in the sacral canal and yet did not extend upward to come into contact with nerves supplying areas not involved in the operation

Among the 100 cases the anæsthesia was incomplete in 17 per cent. Whenever there was definite pun the induction of anæsthesia was classified as a failure even if the operation could be completed without the use of a general anæsthetic. General anæsthesia was induced in eleven cases.

The incidence of satisfactory anæsthesia was proportional not to the amount of procaine solution used but to the concentration of the solution. The best results were obtained with from 15 to 20 c cm

of 3 per cent procaine

Extradural anassitiesia produces complete relavation of the muscles of the penneum, thereby facilitating the operation. The postoperative complications are definitely less than those following any type of general anasthesia. Postoperative pneumonia and uraemia did not occur. Cardiac decompensation occurred in only one case and in this in stance it was mild and was followed by complete recover.

Epidural anesthesia should not he used for nervous unco operative patients unless general anesthesia is definitely contra indicated. In the cases of old debilitated patients with impaired kidney function, extradural anesthesia undoubtedly reduces the operative risk. The extradural block need not he supplemented by transsacral injection.

C TRAVERS STEPITA, M D

keyes E L An Operation for Incontinence of Urine Following Perineal Prostatectomy Surg, Gynec & Obst 1926, thi, 423

Keyes reports a case of incontinence following perineal prostatectomy one year previously. The patient was a man 70 years of age. On October 16, 1923, the perineum was opened through the usual V shaped incision made in the line of the old scar and the rectum was separated from the urethra. The membranous urethra was opened by mistake hut was sutured immediately. As no fibers of the external urethral splinicter could be found, the two leva tor an muscles were sutured to the posterior part of the hulbocavernosus.

Seven weeks after the operation the patient re mained dry all night. When he left the hospital on January 14, 1924 he was dry at night but was unable to control his urine by day, except when he was sitting down. Eleven months after the operation he was obliged to empty his bladder twice at night but was able to hold the urine half a day. In June, 1925 he reported that he was entirely well, was not obliged to unnate at night, and remained perfectly dry.

ALTON OCHSNER M D

Gayet, G and Peycelon R Pyelonephritis After Prostatectomy (La pyélonéphrite chez les prosta tectomsés) J d'urol méd el chir, 1925, xx, 371

Ascending infection of the ureters and pelvis in prostatitis is common but little attention has been paid to the course of the lesions after radical operation and the effect of prostatectomy upon their evolution The authors report five cases which show that pyelonephrits is not overcome by prostatictomy and after the operation constitutes a danger against which precautions must be taken. In the majority of cases the pyelonephrits which becomes manifest after a prostatectomy is a continuation of a pyelonephritis that euisted before but there are eases in which it develops after operation in patients who had clear unne before Of course renal disease preceding prostatectomy also predisposes to this complication.

Pylonephrus generally develops the third seed, after prostatectomy and begins when the hypogastric fistulus a closed. There is often a light rise in the temperature at this time. The free dramage of the bladder through the suprapulue fistulus is replaced by less perfect dramage through the returnor cathe ter and the slightest obstruction of the sound with reflux of unite causes an ascending infection.

I velonephrates after prostatectomy may be acute or chrome The progno is is rather grave. The diag nosis is easy. To prevent the development of the condition special care must be taken when the supra pulne fistula is closed Vesical lavage should be practiced twice a day a low pressure being used in order not to cause a reflux into the ureter Trau matism and infection of the urethra must be avoided A sound must not be introduced through the penistro soon and after its introduction care must be taken to see that it functions perfectly If the fever and pyuria per ist suprapubic drainage should be re established The hest treatment for e tablished pyelonephritis is the intravenous injection of urot ropine combined with lavage of the pelvis with r per cent protargol If the kidney increases in size and there is retention of pus nephrotomy may be neces sary In errous cases this operation must not be too long delayed AUDREY C MORGAY M D

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Harbin M Non Suppurative Osteomyelitis with the Report of an Unusual Case J Bone & Joint Surg 1926 viii 401

In the case reported that of a boy 14, years of age non suppurative selection osteomyellus of the os calets followed truma sustained a vear previously when the patient steeped on a rusty nail Weight bearing was very painful. There was no redness or suppuration. The affected heel was broader than its mate and moderately tender. Its surface temperature was slightly increased. Roentgenogrums showed destruction throughout the epiphyseal portion of the affected heel, with increased density of the body and proliferation on the lateral aspect.

Operation revealed increased vascularity with slit irregularity an increase in the size of the bone thickening and eburnation of the cortex and a decrease in the cancellous bone. There was no evidence of suppuration. The condition seemed to have some relationship to epiphysists or osteochondritis.

DANIEL H LEVINTRAL M D

Codman E A Registry of Bone Sarcoma I Tventy Five Criteria for Establishing the Diag nosis of Osteogenic Sarcoma II Thirteen Registered Cases of 'Five-Year Cures Analyzed According to These Criteria Surg Gynec & Obil 19 6 Sin, 384

One of the primary objects of the registry for bone sarcom is the collection of cases of osteogenetic sarcoma which have been cured for five years without recurrence and the recording of the methods of treatment in such cured cases

In a period of five years there have been collected only seventeen primar, malignant bone tumors

which may be considered cured

Through the efforts of the Registry there is now a collection of roo standard benign guant cell tumors coo standard osteogenetic sarcomata of the femur 100 osteogenetic sarcomata of other bones and 50 standard cases of Ewing s tumor In all, 650 cases have been studied

In the seventeen cured cases of primary malignant boat tumor an amputation was done in all but one In the one exception local exploration was followed by intense irradiation and the use of Coley's scrum In eight cases irradiation treatment was given In seven the treatment consisted of amputation alone

In nearly all cases of osteogenetic sarcoma pain precedes the other symptom Pathological fracture is rare whereas in cases of cysts grant cell tumors and carcinoma it is common A history extending over a period of years is unusual Most patients seek advice from one to twelve months after the onset of the condition

The general health just before the onset is good With the exception of cases in which the osteogenetic streoma was coincident with Pagets disease there is no record of such a sarcoma in a patient over 50 verts of age. The growth of the tumor is rapid and steady being noticeable from month to month.

In the examination the soft tissues are not easily moved over the bony tumor. About one half of all osteogenetic sarcomata occur in the femur and one fourth in the tibia. The phalanges carpal, and small or tarsal bones seem to be exempt. Signs of inflam mation are absent or very mild. The neighboring joint is not involved. The tumor is usually large, and involves both sides of the cortex.

In the \ ray picture medullary or subpensesteal involvement a seen. The old shaft remans in its normal position even if it is disintegrated, and is never expanded. The advancing outline of the tumor in spongy bone is irregular and rough. The process is both osteoly the and osteoblistic. The soft parts near the bony site of the tumor are usually invaded.

On microscopic examination mitotic figures are found to be numerous and by perchromatism of nuclei and pleomorphism are prominent. Tumor gant cells and foreign body, gant cells are often present, but their absence does not rule out malignancy. The differentiation between cellular and intercellular substance is not sharp. If complete differentiation is found the tumor is probably beingn. Definite blood trees are chriacteristic of osteogenetic sarcoma whereas in beingn giant cell tumors there are only capillaries or sinuses without any walls except the endothelium lining them.

Is a rule the pathologist, reentgenologist, and surgeon agree in their independent diagnoses if the tumor is definitely malignant. If one of them is in doubt all of the others are also in doubt or should be. Much depends upon the amount of tissue sent to the pathologist and the completeness of the history and other clinical data.

Thirteen cases cured without recurrence after five years are tabulated. In three, the tibin was involved and in ten the femur. An amputation was done in all except one. In five, the amputation alone must be regarded as responsible for the cure.

WILLIAM A CLARK, M D

Cole W H Chondrodysplasia Surg, Gynec & Obst, 1926 din 359

Ollier who first reported chondrodysplasia, de scribed it as irregular and retarded ossification at the epiphyseal cartilages the cartilage persisting as nodules and masses which take a long time to become

transformed into bone. The condition is observed most clearly in the bones of the fingers and toes The clinical picture is that of arrested development and growth with curving of the long bones deformities of the hands and feet and joint deformities conse

quent upon the hony changes

Following a review of the literature. Cole reports a case of his own The patient was a girl of in years whose right leg had been short from hirth. None of the other members of her family showed a similar de formity The patient had had the usual diseases of childhood Examination revealed enlargements at both ends of the tibia and the lower end of the femur The knee presented varus angulation shight flexion and external rotation The right leg was 20 cm shorter than the left Roentgenograms showed a short thick femur with enlargement at the mid shaft and at the lower end In the enlarged portions mot tling and irregular vacuoles were evident. The same sort of enlargements were found at each end of the tibia and in the first and second toe bones and their metatarsals

A highest was done on the upper tihial tumor Grossly the mass was cartilagenous with a thin bony Sections showed cartilage with small bony islands As no treatment was indicated an extension

shoe was prescribed

In conclusion Cole states that the term Ollier's disease should be confined to cases of cartilaginous distrophy with or without tumor in which asymmetrical involvement of the hody is the outstanding clinical feature Chondrodysplasia also is usually asymmetrical hut as several symmetrical cases are on record the term chrondrodysplasia hroader application than Ollier's disease '

WILLIAM A CLARK, M D

Cumberhatch E P and Robinson C A Infective Arthritis in Women Best M J 1926

The authors report investigations carried out from the standpoint that the elucidation of certain ob scure conditions may be facilitated by considering the results of treatment. They discovered that the process producing arthritis may sometimes be brought to an end by heating the pelvic organs by The local application was first found effective in gonococcal arthritis hut later proved beneficial also in other types of arthritis In the cases of gonococcal infection it was found unneces sary to apply the current to the joints if it was applied to the foci from which the dissemination oc curred—the cervix uteri in women and the prostate and seminal vesicles in men. With regard to the other cases it was assumed that the effect of the current upon the arthritis was due to its action upon the cervix or the prostate infected by other organisms However in one series of cases in which it seemed clear that no infection was present—those of women in whom the arthritis developed at the time of the establishment of menstruation or at about the age of the menopause -the arthritis appeared to be due to the lack or deficiency of the hormones of the ovary or some other pelvic organ

In the cases of virgins the diathermy was applied

by a rectal electrode and in the cases of married women through the vagina

Two cases are reported one of arthritis occurring when menstruation began and the other of arthritis at the time of the menopause In both of these cases diathermy proved heneficial and seemed to aid in the establishment of normal physiological processes ROBERT C LONERGAN M D

Syme W S and Cappell D F A Case of Chor doma of the Cervical Vertebrae with Involve ment of the Pharynx J Laryngol & Otol 1926 xh 200

The recognition of tumors derived from noto chordal remnants dates from the classical research of Muller Luschka and Virchow Muller was able to show that notochordal remnants frequently persist in the spheno occipital and sacrococcygeal regions About fifty six cases have been reported growths occur most frequently in the spheno occup ital and sacrococcy geal regions

The authors report the case of a man 50 years old who entered the hospital with a history of shooting pains in the neck of two months duration followed by increasing stiffness and difficulty in swallowing

Breathing and speech were affected

Physical examination disclosed an extensive smooth swelling in the posterior pharyngeal wall which was more prominent on the left side than the right. At operation the growth was found limited antenorly and laterally by a capsule Postenorly it had invaded the hody and adjacent portions of the third cervical vertehra. It was resected as far as possible and a diathermy button applied

Six months later a recurrence was operated upon At this time the growth was ill defined and resection was more difficult. The patient died of septic pneu-

The first specimen had a curious semi translucent rather gelatinous appearance and was composed of definite strands The second specimen was similar and no more degenerated. At autopsy no evidence

of metastatic growth was found

The growth was typical of the class of tumor de scribed as chordoma although it was rather more cellular and more malignant than the majority of such growths The histological appearances were characteristic, and reproduced with considerable fidelity the various stages in the ontogeny of the notochord There are solid cellular areas composed of elearly demarcated epithelial cells similar to the notochord in its second stage of development Later the cells begin to hecome differentiated and exhibit the characteristic mucinous secretion of notochordal cells with here and there the formation of actual physaliphorous cells as the large highly vacuolated structures have been named In other places secre tion is poured freely into the intercellular spaces and the appearance of the notochord at a more advanced stage is reproduced in an exaggerated degree Final ly, just as when the notochord becomes enclosed in the centers of the intervertebral disks to give rise to the nucleus pulposus the cells become modified to irregular syncy tial strands with many large vacuoles which contain a substance of unknown nature

The presence of very definite sheaths round the smallest invasive elements of the tumor is a striking example of reversion of the tumor cells to a stage far back not merely in the ontogens of the individual hit also in the phylogens of the vertebrates. In the human subject, the notochord does not undergo the more elahorate differentiation when occurs in some of the lower vertebrates and the primary and secondary sheaths are at best only very poorly developed. These sheaths are present in certain lower mammals, e.g. the pig and the mouse, but the greatest development of these structures occurs in exceedingly low vertebrates such as lepidosiren and acan thus

The tumors thus appear to reproduce in a very interesting fashion the character of notochordal cells both in architectural arrangement and cytological structure

ROBERT C LOYERGLY, M.D.

Rollier A Pott's Disease J Bone & Joint Surg., 1926 viii 360

Probably the most famous institution of heliotherapy is that at Leysin Switzerland under the direction of Rollier. In this article Rollier reports his observations upon the successful results of helio

therapy in Pott s disease

In addition to the sun treatment immobilization in the horzontal position is maintained until a complete cure of the diseased vertebræ is demonstrated by roentgenograms. Ambulator, treatment is not considered. The horizontal position gives the neces sary rest to the spinal column and, by removing the harmful influence of the body weight, prevents fur their utceration due to compression or deviation of the vertebra. To obtain the desirable byperexten sion of the diseased segment the patient is immobilized by turn in the dorsal and ventral positions.

In the dorsal position the patient with spondy little is placed upon a bard mattress if he has well developed musculature and no deformity of the spi nal column. If he is in poor condition millet seed cushions of uniform consistency are arranged between his hody and the mattress. In the cases of children and restless adults a canvas jacket is applied with straps to keep the patient from turning or sitting up in bed. In cases of gibhus formation the spine is hyperextended and millet seed cushions of gradually increasing thickness are placed underneath the kyphosis. The cushions are later replaced by a block of wood which conforms to the shape of the gibhus.

When the pain has ceased the patient is turned to the ventral position and a wedge shaped cushion is placed under the chest. In some cases the shoulders are supported hy a canvas strap fastened to the foot of the hed. In this position the hack muscles are

developed by movements. In cases of cervical spondylitts the bead is beld in a celluloid cup modeled on a plaster cast of the back of the bead. This cup is fitted with wheeled supports running freely on rails which eliminate traction and permit any degree of extension.

When the disease involves more than one vertebra
the patient is kept in the borizontal position until
the Yray shows the formation of a solid cicatrical
block with a strong bony structure. This may be obtained in from one to two years. The patient is then
gradually permitted to assume the upright position
with the aid of a supporting corset. The corset used
for men is made of perforated celluloid and that for
women of linen re-enforced with steel rods. The
author is opposed to plaster corsets.

When the cure is complete the patient is urged to continue the sun haths at home in order to pre

vent a recurrence of the disease

ROBERT C LONGERGANT M.D.

Berry J M A Theory as to the Cause of Perthes'
Disease Based on Roentgenological Findings
J Bone & Joint Surg., 19 6 viii, 333

The theories as to the cause of Perthes' disease are narrowed down to three (1) the infective (2) the traumatic and (3) the congenital

Thirteen cases are reported with roentgenograms. The author calls attention to the frequence with which bone changes characteristic of Perthes' disease follow the reduction of congenital dislocation of the hip and speculates as to the relationship between them. He believes the changes are satisfactorily explained by the theory of partially arrested develop-

According to the theory of biogenesis, the embry on its development tends to repeat the evolutionary history of its race. The limb structure of human embry os at the end of the second month and the position of the limb in relation to the trunk correspond to that found in adult reptilian development. It is probable therefore that partial arrest of growth at the reptilian stage results in an imperfectly formed shallow acetabulum and a small, malformed head of the femur, and that therefore when rotation of the limb takes place to make the erect attitude possible a dislocation of the head of the femur is very apt to

A human hip joint partially arrested in development at the reptilian stage probably has an epiphysis of poor quality. It is easy to believe then that the trauma incident to the reduction of a congenital hip would affect the circulation and would be sufficient to produce the changes of Perthes disease by caus ing the epiphyseal tissue to hreak down. The author reports one case with characteristic V ray evidence of the disease following traumatic dislocation of the hip in a boy of y years.

If trauma acting upon defective epiphyseal tissue causes these changes it is logical to expect to find similar changes in defective epiphyseal tissue in other joints. Several such diseases have been observed osteochondritis of the spine tarsal sca phoiditis osteochondritis of the second and third metatarsals and Osgood Schlatter's disease of the tibial tubercle. The author has observed also a case in which the \ ray disclosed changes similar to those of Legg Calve Perthes disease in the epiph ysis of the lower end of the radius and another in which it revealed such changes in the semilunar bone of the wrist. In a third case similar bony changes were found in practically every joint in the body ROBERT C LONFRGAN M D

Moller P F The Clinical Diservations After Heal ing of Calve Perthes Disease Compared with the Final Deformities Left by That Disease and the Bearing of Those Final Deformities on the Ultimate I rognosis Acta radul 1026 v 1

The author has collected seventy four healed cases of Legg Calve I erthes disease thirty five of which were his own In fifty eight cases (78 4 per cent) the functional result was good the only clinical defect being a very slight dragging of the leg in about one half of the cases

In sixteen cases (21 6 per cent) the disease caused considerable restriction of the movement at the hip and a permanent limp beven of the patients in this group have been able to go about freely and continue their usual occupations but the nine others have continual pain in the hip which decreases their ability to work

The author concludes that the delormities result ing from Legg Calve Perthes disease favor the development of arthritis deformans. He believes that this is true not only of the severe deformities but also of the so called perfectly healed lesions and those which remain latent

SURGERY DF THE BONES JOINTS MUSCLES TENDONS ETC

Cotton F J Disinfection of Septic Joints J Bone C Joi # Surg 1926 vill 305

Since 1915 the author has advocated incision irrigation and sucure of septic joints. The technique

is as follows

Through a small incision about 1/4 in long extend ing into the synovial pouch a blunt taper pointed irrigator nozzle (like that of a urethral syringe) is inserted Under a head of about 18 inches normal salt solu

tion with 1 15 000 corrosive sublimate is run into the joint until the sac is ballooned when the tip is withdrawn and the joint emptied. This is repeated.

for fifteen minutes

The synovial capsule is then sutured with No o or a catgut which is not exposed within the joint and the fibrous capsule is sutured with a water tight lock stitch The outer wound is left open An alcohol dressing and a pillow splint are applied. Motion is begun on the tenth day

I focus of infection within the joint will defeat the disinfection DANIEL H I EVENTHAL M D

I atreille J Resection of the Lower End of the Humerus for a Cunshot Wound Findings Eight Years After the Operation (kesection diaphys) cpiphysaire pour traumati me de guerre résultat éloigné datant de 8 ans) Rev d'orthop 1925 YYXII 551

The patient whose case is reported in this article was a soldier who eight years ago was subjected to subperiostcal resection of the humerus for a gun shot wound of the elboy A recent examination by Latreille showed a slight prominence of the electroner process but all movements were possible. The joint was not abnormally movable. The \ ray demon strated a tendency on the part of the bone to widen in order to form a new epiphysis. It revealed also the new trochlea and the condyle. The new bone was 7 cm shorter than its fellow on the opposite

I atreille culls attention to the frequency and the relative completeness of bone regeneration when such resections are made subperiosteally according to the technique of Ollier ANTHONY I SAVA M D

Lyle II II M Skin Plastics in the Treatment of Traumatic Lesions of the Hand and Forearm Ann Surg 1026 IXXXIII 537

For the restoration of function following injuries of the hand prompt healing is essential Healing can be expedited by the use of suitable skin grafts Skin plastics may be employed singly in combina tion in series and as primary and secondary clos ures To obtain a primary permanent closure care ful debrudement must be done first and the raw sur face immediately covered by a suitable flap Ideal conditions such as a good blood supply and asepsis are necessary. In small defects the Thierseh graft can be used in large defects where deeper struc tures are exposed a pedunculated flap is necessary

Secondary closure by a Thiersch graft is done in cases of extensive destruction of the skin and cases of hurns and ulcerations. The object of the treat ment is to sterilize the wound and provide an cpi dermal covering. It prevents excessive sear formation and decreases the possibility of future contrac

Skin plastics in series are used when temporary closure is the prime requisite. A Thiersch graft is first applied and later when the wound is healed the grafts are removed and a pedunculated flap is substituted TRANK G MURPHY M D

Mayer L Tendon Transplantations for Division of the Extensor Tendon of the Fingers J Bone & Joint Surg 1026 VIII 383

Traumatic division of the extensor tendons in which primary suture is contra indicated by infec tion or extensive trauma to adjacent tissues can be successfully treated by tendon transplantation per formed under suitable operative conditions Local anastbesia is used. The extensor communis digito rum tendon of the index finger is the most suitable for transplantation purposes

The distal end of the severed tendon is exposed through a 11/2 in curved incision. The tendon stump is freed from adhesions and grasped with a tendon forceps A second incision about 3 in long is made over the course of the extensor tendons of the index finger and the extensor communis digitorum tendon to the index finger is severed at the proper level and freed for an adequate distance so that when it is brought to the injured finger it will be as nearly as possible in a straight line A subcutaneous channel is bored from the first incision toward the wrist in the direction of the extensor communis digitorum tendon The channel must be sufficiently wide The paratenon is well preserved. The tendons are spliced by the end to end method or by the buttonhole overlapping method which is more secure

After the operation the finger is immobilized in the extended position for eight days. The splint is then removed at intervals for gentle active motion. The motions are gradually increased both in range and strength. As a rule the range of motion is about 75 per cent of the normal within four weeks after the operation. Deville H. ELVINITHA, M.D.

Mackinnon A P Plaster Shells in the Treatment of Tuberculosis and Fracture of the Spine Canadian M Ass J 1926 vvi, 399

Mackinnon reports his experience with the plaster shells which have been used for several years by the Massachusetts General Hospital and the Children's Hospital of Boston. The shells have proved satis factory after fusion operations on the spine, in cases of recent fracture, and in cases of spinal tuberculosis

not operated upon

They extend from just below the head to the mid dle of the calf, and are made in two sections—a possible tenor and an anterior half. When the lesion is in the upper dorsal or cervical spine, the plaster is extended to form a head piece. The patient is first placed on a table in the prone position with pillows and sand bugs arranged to give as much cortection of the deformity as possible without causing pain. Next a layer of felt is cut and applied to the posterior half of the bods in such a way as to conform to its contour closely. This is bandaged in place and, by two men it is covered with a plaster bandage applied both lengthwise and across and is molded closely to the figure.

The shell is re enforced by metal strips between the knees connecting the body and thigh portion and in the case of a head piece between the body and the head. When the plaster has set the bandages holding the felt are cut and the shell with the adher ing felt is removed to dry. When the splint is dry, the patient is placed in the posterior shell and an anterior section is made similarly.

Probably the greatest advantage of this sphint is that it permits moving the pritient without causing discomfort when heliotherapy is to be given or dressings are to be changed following operations upon the back. With the patient in the posterior half, has, been be easily turned after the anterior section has hear bundaged to its opponent The posterior shell may then be removed

The use of the spint in Pott's disease places the diseased part at rest, relieves it from weight bearing, and either prevents deformity or decreases it through the development of compensatory curves above and below the site of the lesion. It has been found efficacious in the postoperative management of cases in which the fusion operation of Hibbs or Albee has been performed. The author reports one case in which the shell was used with relief of pain and the re establishment of the normal physiological curves following the manipulation of a recent fracture of the spine. RODERGE LOWERGEM M.D.

Moorhead J J Arthrotomy for Knee Joint Cal culi Ann Surg 19 6 lxxxii 39°

Cases of loose body in the knee are classed by Moorhead as acute subacute and chronic

Acute cases comprise those of sudden mechanical injurt followed by pain swelling due to effusion, and disability. One attack predisposes to another, and the condition usually prases on to the subacute and chrome stage. In the initial injury, the meniscus is probably fractured or partly detached and in subsequent injuries it is separated as a loose body.

In the route cases examination usually reveals (1) fracture dislocation of a memorus, (2) a chip fracture from an articular surface (3) a subpatellar fat pad (4) villous synovitis, and (5) hands or ad

besion

The subacute cases present the same pathological conditions and also synovial excrescences exostoses, and enchondroma

In the chronic group, a hypertrophic arthritis with irregularities of the joint is found in addition

In the acute cases the treatment indicated is reduction of locking aspiration of the joint effusion, and splinting. When the pain subsides the patient may be allowed to wilk while still wearing the splint. Overbending or rotation of the knee should be forbidden for several months.

In the subacute cases stimulation of the weak ened quadriceps by massage and radiant heat is important. Only rarely is operation indicated in the

acute sta:

In the chronic cases, it is often necessary, to remove a torn cartilage. This is best done by the Jones method with the knee fleved at a right angle. Move ment should be insisted upon every two hours, be guming unmediately after the operation. After the removal of the sutures on the seventh day, the patient should begin to walk.

When there is doubt as to the exict nature of the condition the incision should be large enough to expose the entire joint surface. Either the vertical split patella (Jones) meision or the mediolateral in cision will serve will. The latter is begun in the mid line proximal to the patella and brought down to within 1 cm of the upper margin and around the mesal border of the patella to the tibial tubercle. The patella and half of its tendon are then reflected.

outward to the side of the condyle. After either of the incisions mentioned the knee must be flexed

acutely for good exposure

A tabular report of forty nine cases is given Thirty six of the patients were males The youngest patient was o years of age and the oldest 67 years A lateral arthrotoms was done in twelve cases a medi an arthrotomy in twenty three and a mediciateral arthrotomy in fourteen. In all joint stability and flexibility have been improved and in none has there been any postoperative stiffness

VILLEAU A CLARK M D

Ollerenshaw R The Surgical Treatment of Dan gle Foot Brit M J 1926 1 525

The author has operated upon nuneteen cases of dangle foot by the method described by Campbell

Through an external meision such as that made for astragalectomy arthrodesis of the midtarsal and subastragaloid joints is effected and the bone chip are immed of cartilage and placed in salme solu tion. In young subjects the entire scaphoid is re moved Through a mid posterior incision the tendon of Achilles is next divided as for Z lengthening and the back of the tibia and the upper surface of the os calcis are exposed. A notch is then cut in the os calers large enough to receive the broader end of the trimmed scaphoid. After the scaphoid has been placed. in position the smaller pieces of bone are grouped above it and fixed in place by suturing the tendon of Achilles The tendon is lengthened sufficiently to allow a right angled position of the ankle

A plaster cast is applied for six weeks and at the end of that time is replaced for six months by a posterior iron brace preventing plantar flexion

DANTEL H LEVINTHAL M D

FRACTURES AND DISLOCATIONS

Thomson J E M Leverage and Levers in the Re duction of Fractures Achraska State M 1 1926 **≵**0 08

Thomson's technique for the reduction of fractures by leverage is as follows

With the patient under anasthesia and on a fluoro scopic table a stab incision is made over the fracture and by means of a blunt lever of 14 in round steel the fragments are approximated under the guidance of the fluoroscopic screen. When a good position is obtained the lever is held in place and a cast applied around it The protruding end may be cut off to prevent its being disturbed in the nursing of the pa tient After about ten days when sufficient callus has formed to hold the fragments a undow is cut in the cast and the lever pulled out

Thomson claims that this procedure is a definite and certain method of reducing fractures and that the introduction of the lever is no more dangerous than the insertion of a large local anasthetic needle

or of the chisel for asteotomy WILLIAM A CLARK M D

Ritter H H Lasher W W Wurtzel G L and Goldblatt D Fractures About the Elbow Joint A Review of 150 Cases End Results in Flity Two Cases J Am 11 Att 1926 Ixxxvi

This article is a review of 150 cases of fractures about the elbow and a report of the end results in hity two cases

The fractures were supracondylar in 41 per cent In 26 per cent they occurred in the internal condule in 12 per cent in the external condyle in 11 per cent in the end of the radius and in a per cent in the olecranon Eighty two per cent of the patients were under 15 years of age. The musculospiral nerve was injured in three cases and the ulnar nerve in eleven

The authors use the Jones method of reduction as a routine The elbow is flexed until the radial pulse is obliterated and then released just enough to let the pulse come through In order to maure res toration of the normal carrying angle the little finger should be on a sagnttal plane with the greater tuber osity of the humerus Anesthesia is necessary for the reduction unless the case is seen within a few hours after the injury Flexion is maintained by a figure of 8 bandage. No cast is applied. After two days guarded motion is begun and after ten days the handage is removed and only a sling is used

The end results showed normal function and appearance in 86 4 per cent of the fifty two cases traced Ashburst obtained good results in St per cent and Cutlet and Care in 80 per cent

I not results were due to (1) the filling up of the coronoid and radial force with collus (2) bone block (3) failure to maintain the carrying angle or (4) myositis ossificans WELLIAM A CLARK MD

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD, TRANSFUSION

Emile Weil and Stieffel A Case of Marked Hæmophila in the Course of Lithiasic Icterus, Trans fusions, Operation Followed by Recovery (Sur uncasde grande hémophile au course d'unictère lithi asque, transitusons, opération et guérison) Bull et mêm Soc mêd d'hôp de Par 10 6 xin 55

The authors report the case of a 27 year old wom an with infectious bilary lithiusis causing a fehrlle painful and intense jaundice, bleeding from the nose and guns, large exchymoses on the thighs following subcutaneous injections, and numerous purpure spots due to scratching. The patient's history and that of her family were negative as regards bleeding. The venous blood was unclotted and the yellow plasma still fluid after three days. The coagulation time was normal (two to four munutes) but the ear prick held without stopping for one day. As in hamophilia, the addition of one drop of fresh human serum to the patient's blood in timo caused coagulation. The red cell count was 1,900,000 and the hamogloin value was 45, per cent.

Two hours after a 300 c cm transfusion, the blood clotted in fifteen minutes and the retraction of the clot was better. Three days later, the hleeding time was fourteen minutes and the coagulation time one hour and seventeen minutes. Six days later the red blood cells numbered 2,300 000 but the hæmoglohin was still 45 per cent. Nine days later, a second transfusion in which 350 c cm was given, caused a febrile reaction. The next day the bleeding time was four or five minutes.

The marked improvement in the blood lasted for only a few hours after each transfusion, but some permanent henefit resulted as the clotting time ultimately fell from three days to one hour, the red blood cells increased from 1,000,000 to 4,000,000,

and the hæmoglohin increased from 45 to 60 per cent The infection and the fever gradually decreased Following a third transfusion, in which 250 c cm was given incision and drainage of the bile passages with the removal of twelve stones from the gall bladder and one large stone from the common duct was done No hamorrhage occurred The patient made a rapid recovery, with the return of the blood to normal After the operation the bleeding time was six minutes clotting without retraction occurred in five minutes, the red blood cells numbered 4 800 000, the white blood cells numbered 8 000, and the hæmoglohin increased to 90 per cent There was abundant dramage of bile. The jaundice cleared up the stools became normal, and the patient's weight increased

Although hamorrhage occurs in acute hepatic in sufficiency, the authors had never previously noted

a delay of coagulation for a long as three days except in the experimental hrudin blood of rabbits. The hithasic uterus and the hiliary infection in the case reported caused an acute symptomatic, not a per manent hamophilia

In another case, that of a patient with tuhercu losis and fatty cirrhosis of the liver, the authors found

a coagulation time of twelve hours

WALTER C BURKET M D

LYMPH VESSELS AND GLANDS

Jacobson, J The Treatment of Tuberculous Lymphadentitis by Clinnamic Benzyl Ether (L éther benzyl canamique dans le traitement des adénites tuberculeuses) Buil et mêm Soc mêd d hop de Par 2028 xl 1320

The favorable results obtained with cinnamic benzyl ether in the treatment of tuberculoss of the skin and muous membranes led the author to use it in fourteen cases of tuberculous lymphadentis. The technique was the same as that employed for lupus by Darier (Comptes rendus de la Société de der

matologie Fehruary 9 1922)

Except in the case of one patient who ahandoned treatment after the first series of injections, a cure was obtained in an inverage of three months. In four cases, puncture or filiform drainage was necessary. The progress of the cure is indicated by a reduction in the penglandular induration. Ultimately the glands soften and discharge or recorption occurs. The final result is a small filinous nodule.

Cases of varying degrees of seventy were treated In some of them the masses attained the size of a small orange The patient who ahandoned treatment showed considerable improvement after the

first series of injections

The treatment described is suggested as a valuable adjunct to radiotherapy and surgery. It facilitates surgery by reducing the penadentis and mobilizing the glands. It everts a favorable influence also on associated lesions, wherever located. No general reactions have been observed following its use

ALBERT F DE GROAT M D

Rotleston Sir H , Woolbridge G H Fletcher H M Pugh L and Others Hodgkun s Disease in Man and Animals Proc Roy Soc Med Lond 1936 xix Sect Med & Compar Med, 39

ROLLESTON The cause of Hodgkins lympho granuloma is unknown. The histological picture described by Andrewes and Reed is characteristic. The condition has been regarded as (r) a neoplasm (2) a transitional process between a neoplasm and an unflammatory formation, and (3) an infective granuloma due to an unknown yring.

Lymphadenoma occurs usually first in the cervical glands. It very rarely attacks the lymphoid tissue of the alimentary canal. There is no satisfactory evidence that Hodglan is disease has ever been trans mitted to animals. The differentiation between this condition and endothelioma is difficult. Early tuber culous adentits without necrosis or caseation may similate it.

WOOLDSHOP Hodglin's disease is rare in all species of annual everet the dog. It appears to be an infective process rather than a neoplasm. The causal organism whatever it is has a low wrulence. All lymphatic tissue every that in the bowel is enlared. The course of the disease seldom evereds two or three months. The characteristic histological picture in man has not been observed in dogs. There is no satisfactory, treatment. The best results are obtained with arsenic and mercury.

FLETCHER Hodgkin's disease appears to be due to infection perhaps by a spirochete as it is accompanied by fever and responds to arsenic l'rutitus

and purpura are occasional skin manifestations. The fever is usually very irregular and occasionally of the relapsing type. The results of \(\subseteq \text{ray} \) and ar senical treatment are most striking but as yet no permanent cure has been obtained.

PUGH Hodglin's disease is most frequently con fused with one of the leukemias tuberculosis or malignant disease. No case in an animal has re sembled the condition in man as described by An

drawes and keed
STEWART Attempts to cause Hodgkin's disease
in monkeys have failed. In the later stages the con
dition resembles a neoplasm. It is difficult to differentiate between Hodgkin's disease and utherrulosis even when the glands are sectioned. The flood
chinges in lymphadenom are so slight or so very
viriable that they are of practically no value in the
diagnosis.

THURSFIELD The disease called lymphadenoma in animals differs from the lymphadenoma occurring in man Cyril J Glastel M D

SURGICAL TECHNIOUE

OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Palmer L J Surgery in the Presence of Diabetes Mellitus \orthogonal orthogen Mellitus \orthogonal orthogen Mellitus

The mortality of operations upon patients with diabetes mellitus has been decreased by advances in the chemistry of this disease and in the science of nutrition, better cooperation between surgions and internists better surgical technique the use of less harmful anresthetics, earlier operation, and better hospital facilities

When the taking of liquids by mouth is prevented for a considerable time by the nature of the operation or by vomiting it may be necessary to give glucose by rectum. When the surgical procedure or diarrhoza prevents the rectal administration of glucose its intravenous administration must be resorted to. When nutrition can be given by mouth liberal amounts of orange juice and outnet gruel will usually supply sufficient glucose for buffer pur

poses

When it is possible to devote a day or two to the preparation of the diabetic patient for operation glycemia should be reduced to at least "oo mgm per 100 c cm and the alkali reserve raised to at least fifty volumes per cent. Particularly in the presence of infection and in the cases of elderly patients care must be taken not to restrict the carbohydrate in take to such an extent that the glycogen stores will be depleted. In such cases more insulin should be given to remove ketone bodies lower the glycogen erserve. The protein intake should not be less than usual but the fat intake should be reduced to a very small amount.

Chlomform should never be used. Ether also should be avoided if possible. Nitrous ovide and oxygen alone or combined with local anaesthesia in duced by infiltration or preferably by nerve blocking is very satisfactory. Spinal anaesthesia is probably the safest from the standpoint of the diabetes. Ethy lene 'also is entirely satisfactory.

CARL R STEINLE M D

Bigger I A Hypertonic Sodium Chloride Solution Intravenously in the Treatment of Extensive Superficial Burns South M J 19 6 xx 30

The salient symptoms associated with super ficial burns are explained by the presence of a torun in the blood. In sever, burns concentration of the blood has been demonstrated in some instances and it is probable that such a change occurs in the majority of cases of extensive lessons.

Robertson and Boyd were able to demonstrate primary and secondary proteoses in burned animals When certain protein derivatives are injected intra venously, the concentration of the blood is in creased. It therefore seems possible that the in creased concentration found in severe burns is the result of the absorption of protein decomposition products due to the injury of the tissues.

Cannon considers low blood pressure the important factor in shock and believes that this is the result of a decrease in the blood volume. If this theory is correct a prompt increase in the volume of the

blood is of importance

Hipertonic sodium chloride solution given intra venously increases the blood volume promptly and for a considerable period of time. Therefore the author believes that its use is rational in the treat ment of severe burns. It is proposed not as a substitute for debridement or the forcing of fluids, but to prepare the patient for debridement.

CYRIL J GLASPFL M D

Smith F A Rational Management of Skin Grafts Surk Gynce & Obst., 1926 xin 556

The best sources of skin for grafting are the upper arm of the male and the thigh of the female. When soft hairless skin is required the graft should be taken from the inner aspect of the limbs. There is no special advantage in choosing skin from an area of tension such as the deltoid, nor in obtaining it from the prepuce or scrotum.

It is obvious that a graft is parasitic and during the first two or three days after its transplantation it must be muntained by the absorption of tissue juices or lymph. Hence, its intercellular spaces must be open to the circulation of lymph in order that nourishment may be carried to its cellular elements. It must be cut accurately to size maintained at normal tension accurately fixed by carefully placed satures and accurately approximated to its base by a proper even pressure. The skin must be free from fat. In the use of various pressures in the application of skin grafts. Smith bas found that for full thickness grafts a pressure of 30 mm. Hg is very satisfactory.

This same care is not vital to the success of split skin grafts. A simple technique consists in smeaning the source of the graft with a thin layer of vaseline, which materially facilitates the cutting of the piece, arranging the skin, raw surface outward, on dental impression compound molded to the part to be covered and applying this with a firm bandage without measuring the pressure.

The grafted part should be immobilized for several days. Histological descriptions of contracted skin skin under normal tension, and skin on the second, fifth tenth, and twentieth days after grafting are given.

Carl R STEINER MD.

ANÆSTHESIA

Meeker W R Recent Developments in the Tech nique of Regional Anæsthesia Chn Med 1926 XXXIII 225

Local anæsthetic procedures may be divided into terminal infiltration field block and nerve block Field block is especially applicable to the removal of superficial benign tumors and for anæsthesia of the fingers toes and metacarpal and metatarsal bones Circular field block of the terminal rectum affords satisfactory anæsthesia for hæmorrhoidectomy Field block is satisfactory also in the repair of the

average herma Paravertebral block of the spinal nerves is of great est value when it is applied to cervical and sacral nerves Block of the cervical plexus by the lateral oblique route affords adequate anæsthesia for opera tions on the neck such as thyroidectomy larvinger

tomy and the removal of thyroglossal duct cysts and diverticula of the ecophagus

In block of the sacral nerves a low sacral injection combined with transsacral injection of the later al foramina affords most constant anasthesia. By this method the entire pelvic floor and the viscera are anæsthetized so that the Kraske operation peri neorthaphy or penneal prostatectomy may be per formed painlessly With the addition of suprapubic field block resection of the bladder and suprapulic prostatectomy may be done

Block of the splanchnic nerves does not afford sufficient anasthesia for the performance of ab-dominal operations. If for any reason general anæsthesia is not to be employed these operations are best performed with the use of terminal infil tration methods combined with deep preliminary narcosis and followed by very gentle postoperative

management

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Wetterstrand G A Roentgen Therany in Surgical Tuberculosis Acta radial , 19 , 14, 528

The author gives an account of the experiments he has carried out and the results he has obtained in the roentgen treatment of surgical tuberculosis He believes that this treatment is of the same value as other procedures now in use provided the proper precautions are taken and has the added advantage that it cau es the nationt less expense. The best results are given by small do-es-about one third the erythema do-e, with an unward allowance of from 20 to 50 per cent

Most of the cases reviewed nere cales of tubercu lous lymphomata The stage of the condition has little influence upon the results, but the spreading and fistulous forms require more prolonged treatment than others Local irritation must be avoided recurrence or infection of other glands occurred in 4 per cent of the cases, not dangerous skin changes in 12 per cent and telanguectases in 3 per cent There was no necrosis

The treatment proved extremely effective in tuberculous perstonitis without pulmonary or intestinal complications Or twenty four such cases, fifteen remained cured after from two to five years and tem porary improvement was obtained in five

Tuberculosis of the female genital organs reacts extremely well to roentgen therapy. In the authors opinion roentgen irradiation is the best treatment for such cases Of ten patients whose condition seemed hopeless when the treatment was begun four are well three have been free from symptoms for two years and two who are still under treatment have been benefited. One cannot be traced Cases in which operation is performed should be given post operative roentgen irradiation.

The author believes that in the treatment of tuber culo-is of the male genital organs too little attention has been paid to roentgen therapy His nine patients with this condition have been restored to health

Cases of fistulæ after nephrectomy puncture canals infected with tuberculosis, and secondary foci of the dilease in the soft tissues have a good prognosis

Roentgen irradiation is gaining favor allo in the treatment of tuberculo is of the bones and joints

Bardeen C. R. The Biological Effects of Roentgen and Gamma Rays. Wisconsin M J, 1976, xxv 215

Investigations based on radio-activity have led to profound changes in some of the more fundamental theories of physics and chemistry. These are discussed at some length to correlate them as far as possible with the very imperfectly understood hiological effects. They arise from the radiant energy

ab-orbed by the tissues The roentgen and gamma rays absorbed affect primarily the electrons of various atoms whose period of revolution about the central nucleus corresponds in frequency to the wave frequency of the radiant rays. To these high speed electrons within the tissues are attributed most of the direct biological effects of radiation. They may interfere with the electrostatic tension of the colloid particles of the cell or alter the molecular structure of some of the constituents of the cell

The part of the cell most susceptible to radiation is the nucleus. Brief mention is made of some of the experimental work by which this fact has been estah lished In general it has been found that the tissues most censitive are those which contain a relatively large amount of chromatin are in active cell division. or have great regenerative power. The cells of a raved tasue are unequally affected Regeneration takes place from the uninjured or less injured cells. the cells at rest at the time of the exposure Recov ers is possible only when the regenerative powers of a tissue equal or exceed the susceptibility to injury, when there is a low injury regeneration ratio. The therapeutic value of the roentgen rays and gamma rays depends upon the fact that pathological tissues may have a higher injury regeneration ratio than normal tissues

Reference is made to the relative sensitivity of various normal tissues reported by Hirsch and to the relative radio-sensibility of pathological tissues as given by Ewing The latency in tissue effects following radiation is commented on, and various direct and indirect factors having a bearing thereon are mentioned. Hirsch's table showing the latency period of pathological tissues is included

Favorable effects after suitable irradiation may result from direct destruction of tissue cells or from indirect local or systemic reactions such as lympho cytosis or localized fibrosis Toxic substances may be produced. If these are not in excess they may stimulate chemical and morphogenic defense reac tions which favor normal as opposed to pathological tissues. If in excess they may cause severe con stitutional disturbances ADOLPH HARTUNG M.D.

RADIUM

McHutchison J P and Brown W H A New Development in Radium Therapy Larcet 1926, CCX. 755

The authors describe a method they devised to employ the active deposit of slow change viz Radi um D and E This deposit is found in all exhausted emanation (radon) tubes that have been prepared and remain unused in radon tubing institutes. The beta and gamma rays from Radium D and E have a

penetration sufficient to irradiate 3 mm of tissue With this penetration such lesions as capillary and superficial cavernous nævi and lupus erythematosus can be treated.

Six cases are reported with a description of the technique. The results were very encouraging

The active deposit is placed upon silver or nickel plates of various sizes and from 0 2 to 0 4 mm in thickness

The problem of measuring the intensity of vanous applicators was solved in part by comparing with uranium outle films by means of a beta ray electro scope. Applicators producing an erythema in from three to seventeen days were made. From the view point of the time of exposure those producing an erythema in a few days are superior. Blistering and

crusting are to be avoided

The applicators are placed in contact with the lesion for the number of days necessary to produce an erythema. To protect the applicator from najury by moisture and friction both of which remove the mystible active deposit a layer of screpe de chine is placed between the applicators and the skin. The half deavy nervod of the amplicators is sufferen years.

A [LURLIN M D ing a consider

MISCELLANEOUS

Reyn A The Efficacy of Various Sources of Light in General Light Bath Treatment 1cts radiol 1025 iv 541

The author first briefly sketches the history of light treatment in general and reviews some of the

investigations made especially by Finsen and his pupils with regard to the power of light from different sources to penetrate living tissues. He discusses various conditions and problems connected with the treatment of surgical tuberculosis with light and points out that none of the thorones so far advanced to account for the curative effect of light in this affection has proved entirely satisfactory. It still remains to be determined which rays of light are cheft, responsible for the cure.

Clinical results indicate that the chemical rays and among these notably the more long waved ultra violet violet and blue rays—are of particular im portance and that the luminous red rays also play a

TAle

The author concludes that sunlight is by far the best therapeute light and that sanatona for the treatment of surgical tuberculosis should be located either in Alpine country of by the sea where the sun light contains all of the beneficial rays in a high degree of intensity. Sunlight is beneficial only with it contains an abundant quantity of chemical light. In northern Lurope where most of the chemical rays of the sun are absorbed by the atmosphere during a considerable part of the year recourse must be had to artificial light.

Various sources of artificial light are mentioned. The best is the carbon are light. The lamps must be specially constructed most of those found on the market do not meet the requirements. Only direct current can be used because it is the light from the erater that is most important in the treatment of these cases.

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Sequiera, J. H., Cheatle, G. L. Handley, W. S. Cope. Z., and Shaw E. H. Precancerous. States. Proc. Roy. Soc. Med. Lond. 19.6 xix. Sect. Surg. 1.

SEQUIERA The skin affections which predisposes to cancer are (1) congenital anomalies such as pig mented and warty moles and verodermia pigmen tosa (2) semile changes such as semile keratom (3) local tritiation due to trauma or exposure to light, the \text{rays}, heat, and chemicals (4) scars from lupus lies and burns, (5) chronic dermatoses (6) Bowen's dermatosis and (7) Paget's disease mammary and extramammary.

CHEATLE Epithelial hyperplasia of the hreast is either directly or indirectly concerned in the car cinoma problem but it is impossible to describe a state of dysgenetic epithelial hyperplasia that nevi

tably ends in carcinoma

HANDLEY Carcinoma is always preceded by long continued chronic inflammatory changes in the suh jacent connective tissue. The lapse of time het ween the onset of these changes and the development of cancer may be as long as thirty years Breast cancer often follows chronic mastitis and hoth conditions are found most frequently in the upper and outer quadrant of the hreast Chronic lymphatic oh struction is a frequent and perhaps constant factor in the etiology of cancer. It is probable that the rise in the lymph pressure leads to overnutrition and consequent proliferation of the connective tissue Forthehal cells grow and develop normally only when they are associated in their growth with connective tissue cells

The three most important factors in the causation of cancer are (1) chronic irritation hacterial ther mal or chemical (2) lymphatic obstruction and (3)

an acid reaction of the tissues

Cope The term 'precancerous can be applied only to clinical conditions recognized by the naked eye. In the tongue there are three conditions of a suspicious nature (1) chronic superficial glossitis with associated leucoplakia (2) papilloma and (3) dental ulcers at the margin of the tongue

In the esophagus there are no recognizable pre

cancerous conditions

It is very probable that cancer can and occasional ly does become engratted on simple ulcer of the stomach but this occurs much less frequently than is generally helieved

Cancer of the small bowel is very rare, but every papilloma of the small bowel must be regarded as a precancerous condition In the large bowel cancer rarely follows ulcerative processes There is little

evidence to prove that cancer of the colon is caused by the stagnation of howel contents due to kinks

SHAW The two chief precancerous conditions are chronic inflammation and simple new growths. All specimens of carcinoma of the breast show inflammatory changes but it appears quite evident that be inflammation preceded the new growth. A hreast affected with chronic inflammation is in a precan cerous state. Vlamy papillomata of the slam, mouth and howel are also precancerous conditions.

CARIL I GLASPEL M D

Morton J J Cancer of the Skin Arch Surg 1926

The three main types of skin cancers are the basal cell and squamous cell lesions and navoid and mela notic growths. The last named resemble the squam ous cell type but metastasize quickly and are rapidly fatal.

Morton discusses at length only the hasal cell and squamous cell types The histories of twenty nine cases are given and illustrated by photographs or drawings

BASAL CELL EPITHELIOMA

Basal cell epithelioma is a lesion of advanced life the average age at which it appears heing 55 years. Males are far more frequently affected than females and blondes more frequently than brunettes Senile keratoses the most common precancerous condition result in hasal cell growths. Persons exposed to sunlight and the weather are predisposed Basal cell cancer never arises in a normal skin heing always preceded by a dermatosis. One of its common antecedents is the schorrheire wart.

Although this type of cancer may occur on the extremities and trunk its most frequent site is above

tbe clavicle

Pathologically there are four types of hasal cell cancer—the flat the nodular, the ulcerative and the annular. All are characterized by induration and hardness of the edges and the presence of the translucent pearly white nodules which are pathog nomone of rodent ulcers. The nodular types even tually ulcerate forming yellowish crusts with dry scales. The annular type which is rare is char acterized by a whitish yellow healed central area surrounded by a raised pearly edged growth or scabbed ulceration.

Bisal cell cancers are often multiple and their growth under the skin is much more extensive than is indicated by their surface appearance. On cross section the hasal cell cancer is characterized by a smooth surface limited invision of the subcutane nus tissues and alveoli much smaller than those of soumous cell growths.

Micro copically the cells of the hasal cell cancer have all the staming qualities of the basal layer of the skin. Mitotic figures are easily found. After the corium is invaded a great variety of forms may be assumed in the arrangement of the cells—solid.

masses branching out growths hollow columns etc. The course of the basal cell cancer is chronic Olten fifteen pears may clapse before it attains the size of a quarter. There is a possibility that this type of cancer may be changed to a more virulent type and that a sequenous cell growth may result if inade quate or no treatment is given. While basal cell cancer is relatively being it kills by credding the tissues and producing infection and hamorrhage in the diagnosis it must be differentiated from squamous cell cancer is phills lupus vulgaris and upuss erythematows blastomyce is granuloma and

certain skin inflammations It is the hasal cell cancer which bas established the reputation of the cancer quacks. Cures have been claimed for a great variety of methods early cases Morton regards irradiation with radium or the A rays as the method of choice He has found however that a second or third course of treatment may be necessary before a complete cure is obtained Growths which do not yield to two or three courses should he subjected to surgery Advantages of knife incision over radiation therapy are that it removes the affected tissue completely in the minimal amount of time and allows an accurate diagnosis. Attention is called al o to Clark's method of desiceation by monopolar endothermy a method which is a distinct advance as it can be used on the eyelid and inner canthus

TRANSITIONAL TYPES

Following his discussion of basal cell cancer the author reports two cases which he helieves may represent transitional forms between the basal cell and squamous cell cancer

SOUAMOUS CELL CANCER

Except for certain forms which arise from the scars of lupus vulgaris squamous cell cancer like basal cell cancer is also a lesion of advanced hie It is more common than the basal cell cancer and o curs more frequently in men than women. No racial immunity to this cancer has been noted.

Although the etiological agent is not known it is evident that injuries mechanical irritation derma toses scars ulcers and the action of certain chemicals and light rays play an important rôle in the

causation of the lesion

Squamous cell cancer may occur anywhere on the surface of the body but its most common site is the lower lip. The two principal varieties are the papillary form rapidly produces a projecting nodule of considerable size which ulcrates early. The ulcr becomes covered with a dry crust which drops off now and then and is reformed. The edges of the ulcr are irregular and indurated and if the crust is

removed the translucent grayish pink nodules of malignant tissue can be seen. The infiltrating type forms no external nodule to speak of producing simply an abraded surface with jagged solid outlines and very extensive deep induration. The illeer may have a very innocent appearance.

Squamous cell cancer may result from occupa tional irritations causing warts patches of hyper

keratosis and skin atrophy

Microscopic study shows the pink staming angular cells in varying degrees of cornification forming more or less complete epithelial pearls. The more rapid the growth of the squamous cells the less the chance of differentiation into the cornified type Broders has found a basis for prognosis by comparing the degree of reversion to type with the climical course of the disease. The greater the degree of cornification the less ynighent the Isson

The squamous cell cancer produces metastases while the basal cell cancer does not Unfortunately there is no symptom which sends the patient to the physician early. The differential diagnosis most essential to make its hetween cancer and syphilis If there is no response to antisyphilis drugs within

ten days the lesion must be considered malignant. As squamous cell cancer metastastics early the surgeon should remove the primary lesion with a wide margin and the lymphatic glands draining the

area in one block

Radiotherapsits agree almost unanimously that squamous cell cancer is much more resistant to radiation than basis cell cancer. This should dispose of the theory of selective destructive action on the cancer cells. Injury, to and fibross of the lymphatic channels has no demonstration in fact. Quick says.

By external radiation alone we do not feel we have ever been able to destroy completely fully developed

epidermoid carcinoma in the cervical nodes.

In the author's opinion a combination of surgery and radiotherapy is desirable in every case. The

treatment of choice is removal of the primary grouth by electrocaggidation or cautery dissection and the use of emanation seeds in this Whenever possible all malignant tissue should he removed

Squamous cell cancer of the scalp and forehead does not require removal of the regional glands but in cancer of the face cheek, eyelid chin or nose the glands should be removed with the lesion

PAUL W SWEET M D

Nichols J H Goodhue F W Champion M E Bigelow G H and Lombard H L Cancer in Massachusetts Boston M & S J 1926 exciv

Cancer is increasing but there are indications that the peak of the curve may be nearly reached. In the United States Massachusetts has the highest death

rate from cancer

The cancer rate increases with the increase in the density of the population up to a population of about 4 000 per square mile and then remains nearly stationary

The average length of life of persons v ho are operated upon for cancer and ultimately de from the condition is twenty two and eight tenths months, while that of persons who die from the condition without operative treatment is twenty months. The average duration of the condition from its onset to the time of operation is ten and three tenths months The average patient seeks the physician's advice eight months after first noticing the symptoms

As about one fourth of cancer deaths occur in bospitals there is need for additional beds for patients suffering with cancer SAMUEL KAHN M D

Crile G W The Contact of the Surgeon with the Problem of Cancer J Michigan State M Ass 1026 XXV. 124.

Precancerous lesions should be removed com pletely when possible or given no treatment at all

For established cases of cancer Crile advocates radical operation if the condition is operable and palliative surgery or radiation or both if it is moper able. The treatment iodicated for cancers of the various organs and tissues he summarizes as fol-

1 Skin radiation except in cases of pigmented

moles, which should be excised

Buccal surfaces mucous membranes of the mouth, excusion, early cancer of the toogue, electric coagulation or the use of the actual cautery, early cancer of the lip, radium late cancer of the tongue or lip excision plus block dissection of the glands

Larynx intrinsic carcinoma, laryngectoms plus postoperative radiation extrinsic carcinoma block dissection plus radiation if possible, tracheot omy plus radiation if inoperable

Thyroid thyroidectomy plus radiation if operable, decompression plus radiation if inoperable,

prevention by excision of fetal adenomata Esophagus gastrostomy for feeding plus radiation.

6 Breast radical operation The value of radia tion is still subjudice

7 Stomach resection if possible gastro-enteros-

toms if monerable 8 Intestines sigmoid and rectum, colostomy plus

radical operation if operable, colostomy plus radia tion if inoperable

9 Uterus for the fundus, radical operation for the cervix, radiation.

to Genito-urinary organs operation plus post operative radiation in selected cases

SHIRLEY C LYONS M D

DUCTLESS GLANDS

Kuestner H Investigations of the Changes in Internal Secretion After Externation of the Uterus Operative Castration and Roentgen Castration and in the Normal Climacterium (Enter suchungen neber die innersekretorischen Verzenderungen nach Uteru extirpation operativer Katration. Poentgenkastration and im normalen Khmaktenum) Moratiche f G barish u Gyruck 102 LX 284

The antbor investigated the changes in internal secretion after operative removal of the uterus operative castration, and roentgen castration, and in the normal chmacterium to determine whether the menstrual duturbances of the menopau e which are manifested chiefly by increased or irregular men struction are best treated by operative removal of the Liena or \ ray treatment of the ovaries

The function of the glands of internal secretion was tested by the Abderhalden method as simplified hy Luttge and you Mertz By means of this test only a pathological change in the internal secretion of a gland is shown Normal function and complete absence of function cannot be demonstrated. The procedure consists in mixing the patient's serum with a previously prepared extract of the organ and main taining the mixture at a temperature of an degrees for twenty four hours When changes have occurred in the gland, substances resembling amino acids are formed These are extracted with 96 per cent alcohol and can be demon_trated by the ninhydrin reaction.

It was found that the serum of women in the normal climacterium and those who had been operstructs eastrated had no reaction to ovarian substance The results were similar in the twenty-one cases in which only the uterus had been removed. Following castration with the V-ray the serum of twenty-one of twenty three women showed a postthe Luttge von Mertz reaction to o arian substance

As the Luttee you Mertz reaction to ovarian tissue was found still positive even four years after the Y ray exposure, it probably indicates a hiological change such as is associated only with very severe disturbances

Since roentgen castration not only destroys the normal function of the ovary but replaces it by what is apparently a pathological function, it is evident that great care is neces, ary in judging the indications for roentgen treatment and that extirpation of the uterus is preferable unless some other ailment such as cardiac failure struma, or diabetes renders opera tion particularly dangerous SCHUMACHER (G)

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International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

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EDITOR'S COMMENT

THE tremendous impetus that has been given to the study of the physiology and pathology of the liver and bile passages as a result of the introduction of Graham and Cole s method of gall bladder visualization is reflected in a constantly increasing number of papers on this subject emanating from surgical clinics in widely separated centers. Rubenstone and Tult's discussion of the comparative value of functional liver tests (p. 200) and Graham Lyon, Zink, and George's symposium on the diagnosis of gall bladder disease (p. 210) are some of the recent contributions that are helping to make the diagnosis of disease of the liver and bile passages more certain and accurate

Some of the difficulties of secondary operations on the gall bladder and the bile passages are discussed. In Payr's interesting paper on exposure of the common duct in operations for externetic of stone after cholecy sectionly (P 212). The use of a catheter and syringe is again recommended as a method of disensing stones ship.

up or low down in the ducts

The possibility of anastomosing a bilary fistula with the stomach or duodenum as emphasized by Babcock (p. 211) and the case with which deep hemorrhage may be controlled by upward pressure on the hepatoduodenal ligament with the index tinger in the foramen of Winslow as has been sugested by Gibson and other sur geons should be remembered in connection with Payr's suggestions for overcoming the technical difficulties of the operation. Guterrer's account of the implantation of a pancreatic fistula into the stomach (p. 214) indicates the possibility of successfully treating pancreatic fistulæ as well as billary fistulate by this method.

Fuch's studies of the inner topography of the kidney (p 2 3) emphasizes the fact that just before they enter the parenchyma large blood vessels from the ventral group pass in the inter stices between the calyces to join the dorsal group, and that when the incision suggested by Zondek, is made to deliver a large pelvic stone these large vissels may be divided. Bouchard and Laquiere's examination of a patient uneteen years after ureterorrhaphy emphasizes the importance of the pensialitic action of the ureter in the normal exacuation of the renal pelvis. In this case, although the ureter had been sutured without resulting stricture formation, the pelvis and upper ureter were dilated and filled with turbid stagnant urine.

Butler and Delprat's review of ninety three cases of intestinal obstruction from the San Francisco Emergency Hospital (p. 60), Weeks and Brooks recommendation as to the treatment of acute pertionitis (p. 207), and Delore, Ceryssel and De Rougemont's discussion of the care of patients before and after operations on the stomach (p. 105) are of particular interest because of the emphasis placed on non-operative meas urse—fluid administration, complete rest for the gastro intestinal fract and gastric lavage—as important measures in securing rest and adulting

elimination

Carlson and Bunnell's experimental studies on the value of pneumothorax is the prevention of pleural effusions after thoracotomy (p 198) and Naervi's study of the methods of tendon regeneration and repair (p 220) suggest some important and practical clinical applications

Voltz review of the results of irradiation treatment of carcinoma of the cervix in the Munich Gynecological Clinic from 1912 to 1919 (p. 217). Davis description of methods of treating deep X ray burns (p. 233) and Albee's interesting account of a difficult and eventually successfully treated case of fracture of the femur complicated by osteomyelitis (p. 230) are a few of many abstracts worthy of special note in this month is sues of the Abstracts.

INTERNATIONAL ABSTRACT OF SURGERY

SEPTEMBER, 1926

COLLECTIVE REVIEW

THE PATHOGENESIS OF THE GASTRIC-DUODENAL ULCER'S

By GEORGE HALPERIN, M D, CHICAGO

THE so called peptic ulcer of the stomach and duodenum is a common malady in man. Its cause, however, isa smuch a mystery today as it was when Claude Bernard first demonstrated that the leg of a living frog will be digested if placed through a fistula in a dog's stomach. Why does not the gastric mucosa digest itself? Dragstedt and Vaughn have shown that other hiving tissues will resist the action of gastric juices. John Hunter beheved that a certain vital principle inherent in the parts protected them from digestion.

Since healthy cells will successfully withstand the action of gastric juice, we must presuppose that the vitality of the cells must be lowered before the gastric juice can evert its proteoly the action upon them. Virchow postulated that all chronic gastric ulcers originate from an erosion. Aschoff defines an erosion as a superficial loss of substance of the mucous membrane resulting from the dism tegration of a circumscribed mucosal necrosis or from a haemorrhagic infarction with secondary digestion. The loss of tissue must be limited to the mucous and the uppermost layers of the submucosa. The muscularis proper is not in vaded.

Thus the ulcer problem can with advantage be approached from two sides, the origin of the crosion and the development of a chronic ulcer from the crosion. The crosion is the pivotal point from which we must start and to which we must return in all our speculations regarding the origin of the chronic gastric or duodenal ulcer. That the origin of the crosion has not been

solved is attested to by the existence of several widely divergent theories. The following will be here discussed (1) The circulatory theory, (2) the neurogenic theory, (3) the infectious theory, (4) the inflammatory theory, and (5) the mechanical functional theory.

I THE CIRCULATORY THEORY

The circulatory theory was advanced by Virchow and Hauser in 1853. Virchow taught that ulcers are produced by an infarction of a terminal blood vessel with consequent necrosis, the starting point for the digestive action of the gastine juice. This view was universally accepted. In connection with this conception the role played by the excessive gastine secretion assumed a special importance. Among the older climicians, Riegel considered hypersecretion the decisive factor. This view was later shared by Boas, Sippy, and von Bergmann, in fact by the majority of climicians.

If was pointed out that chronic ulcers occur only in that part of the gastro intestinal tract which is exposed to the action of the hydrochloric acid, viz, the stomach and the first two inches of the duodenum. They do not occur in the ocsophagus and are rare in the cardia. When the jejunum is exposed to the action of the gastric juce, as following a gastro-enterostomy for ulcer, the well known marginal ulcer frequently develops. On the other hand, no such type of ulcer has ever been observed when the gastroenterostomy was performed for gastric

Received for publication July 7 1926

EDITOR'S COMMENT

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up or low down in the ducts

The possibility of anastomosing a biliary fistula with the stomach or duodenum as emphasized by Baboock (p 211) and the ease with which deep hemorthage may be controlled by upward pressure on the hepatoduodenal heament with the index finger in the foramen of Winslow as has been suggested by Gibson and other sur geons should be remembered in connection with Pay's suggestions for overcoming the technical difficulties of the operation. Guitarres's account of the implantation of a pancreatic fistula into the stomach (p 214) midates the possibility of successfully treating pancreatic fistulae as well as biliary fistule by this method.

Fuch's studies of the inner topography of the kidney (p. 223) emphasizes the fact that just before they enter the parenchyma large blood vessels from the ventral group pass in the inter stores between the calyces to join the dorsal group, and that when the mission suggested by Zondel, is made to deliver a large pelvic stone these large vessels may be divided. Bouchard and Laquier's examination of a patient meteen years after uneterorrhaphy emphasizes the importance of the peristaltic action of the ureter in the normal evocuation of the renal pelvis. In this case although the ureter had been sutured without resulting stricture formation, the pelvis and upper ureter were dilated and filled with turbul stagnant urine.

Butler and Delprat's review of ninety three cases of intestinal obstruction from the San Francisco Emergency Hospital (p. 206), Weeks and Brooks recommendation as to the treatment of acute pertinents (p. 207), and Delore, Creyssel and De Rougemont's discussion of the care of patients before and after operations on the stomach (p. 205) are of particular interest because of the emphasis placed on non-operative measures—flund administration, complete rest for the gastro intestinal tract, and gastine lavage—as important measures in securing rest and administrations of the control of the control of the care of the control of the care of the case of th

elimination

Carlson and Bunnell's experimental studies on the value of pneumothorax is the prevention of pleural effusions after thoracotomy (p 78) and Nacro's study of the methods of tendon regeneration and repair (p 229) suggest some important and practical clinical applications

Voltz' review of the results of irradiation treatment of carcinoma of the cerviz in the Munich Gynecological Clime from 1912 to 1919 (p. 217) Davis description of methods of treating deep A ray burns (p. 233), and Albees interesting account of a difficult and eventually successfully treated case of fracture of the femur complicated by osteomychiss (p. 230) are a few of many abstracts worthy of special note in this month is sue; of the Anstracts.

ulcer patients are "vagotonics" or "sympatheticotonics" Attractive as this hypothesis may seem, it is unsupported by convincing clinical data on the one hand nor by experimental data on the other

III THE INFECTIOUS THEORY 1 STREPTOCOCCI 2 OLDIUM ALBICANS

I Streptococci Rosenow claims to have been able repeatedly to produce ulcerations in the stomachs of experimental animals by inoculating with streptococci cultivated from foci of ulcer patients and from the ulcers themselves Such foct were usually abscessed teeth or tonsils. The streptococci in these cases seem to possess a characteristic selective affinity for the mucous membrane of the stomach or the duodenum Streptococci were again recovered from the experimental lesions and again reproduced ulcer ations in stomachs upon re injection. The ulcers thus produced resembled those in man in location. in gross and microscopic appearance, and in the fact that they tended to become chronic, to per forate, and to cause severe or fatal hæmorrhage According to Rosenow, the necessary require ments have been fulfilled to warrant the con clusion that the usual ulcer of the stomach and duodenum in man is primarily due to a localized h ematogenous infection of the mucous membrane by streptococci

Manh and Williamson of the same clinic (Mayo) have developed a rather ingenious method for producing chronic ulcers in dogs. They transplant the duodenum into the ileum and anasto mose the jejunum into the pylorus. Rosenow did not accept their physiological explanation of ulcer causation. He was able to find a strep tococcus in these ulcers as well. He again demonstrated their selective localizing power on intravenous injection, their presence in the foci of infection of the experimental animals, and their ability to produce poison in titro. More than that, he was able to immunize some of the

animals against ulcer development

In a series of dogs, Ivy failed to produce ul cers by injecting streptococci of proven virulence into two or three branches of the gastro epiploic artery

Rosenow's conclusions await confirmation by other workers

2 Ordina albicans Very recently (1921), Askanazy claims to have found ordina albicans, long known vs a common saprophy to of the hu man mouth in the craters of ulcers in resected stomachs He succeeded in developing ulcers in animals by inoculating into injured mucosa ground up tissue taken from the craters of human ulcers. This work was negatived by the findings of other workers who discovered these organisms chiefly in the periphery of ulcers and not in the necrotic zone, and were not able to reproduce the lesions. The organism is therefore regarded as an accidential saprophytic contamination of no etiological importance.

IV THE INFLAMMATORY THEORY

So far, attempts to solve the ulcer problem have brought out the fact that healthy mucosa will resist digestion. Therefore, a loss of cell vitality must be assumed to occur before the development of an ulcer. It was necessary to determine the earliest damage to the mucosa Trauma mechanical, thermal, or chemical, sug gested itself as the possible cause. Experimental attempts in this direction resulted in failure since, as has heen previously mentioned, no one suc ceeded in producing a chronic ulcer experimentally.

It was suggested also that the initial damage might be brought about by circulatory dis turbances in the gastric or duodenal vessels Pathological conditions of the vessels themselves, such as stavis, thrombosis, embolism, or sclerosis, were considered. It was borne in mind also that circulatory disturbances might be brought about indirectly by neurogenic influences, such as angiospasms or by spastic contraction of the gastric musculature resulting in compression of the gastric vessels. Any of these disturbances might lead to the formation of hemorrhagic infarcts or areas of anæmic necrosis, a starting point for digestion by the active gastric junce. Experimental ligation of blood vessels pro

Experimental ligation of blood vessels produced erosions and ulcerations, but these displayed the same tendency to heal rapidly as experimental ulcers caused by direct injury to the mucosa. Such experiments therefore did not throw any light upon the origin of chronic peptic ulcer in man.

The recent increase in stomach resections for gastric and duodenal ulcers furm, hed an abundant and valuable material for histological studies. So far, reports have been published by relatively few workers, chief of whom are Moscowicz, Konjetzny, Oritor, Kalima, Lehman, and Puhl These studies assume a particular significance because of the striking uniformity in the findings of the various investigators and the number of stomachs examined, which is well up in the thousands. They point out in the first place the unrehability of postmortem material as contrasted with warm fresh material obtained by

resections These studies have entirely different viewpoint

It was found that in all cases of gastric or duodenal ulcer there existed a gastritis or a duodenitis The inflammation was most marked in the antrum the fundus portion exhibiting very little or no inflammatory change. The duodenal mucosa showed an inflammatory change in ca es of duodenal ulceration, and not infrequently also in cases of gastric ulcer. In a very considerable percentage of cases the areas of gastritis con tamed multiple small oval round, and linear erosions the largest of which could be recognized macroscopically as superficial erosions. In some of the preparations such erosions concred by a fibrinous deposit were unusually numerous Gross inspection of these specimens gave the impression that the lesions represented various stages of development of the same process Specimens were observed which showed no frank ulcer but just the picture de cribed

Ronjetany found microscopically in cases of gastric or duodenal ulcer a gastritis or duodenitis in all stages of development. Closer histological study revealed their unmistakably inflammatory character The histological picture was so typical as to be identical in dozens of preparations There was to be observed an infiltration of the interstitial tissue with polymorphonuclear leuco cytes The epithehum of the gland, showed here and there degenerative changes such as fatty infiltration or desquamation and loss of epi thelbum In places where the epithelial lining was seen to be broken there were noted ac cumulations of polynuclear leucocytes in a mesh work of fibrinous exudate. These histopatho logical units differed from those of a typical ulcer in extent only The findings described were con

fined to the antrum and the duodenal bulb Konjetzny particularly calls attention to the fact that most painstaking studies of the blood vessels in these areas failed to reveal any change in their walls neither did he observe any evidence of hamorrhage such as hamosiderun deposits He had never noted anæmic necrosis or hæmor rhagic infarction or the so-called harmorrhagic erosions so frequently seen in the fundal portion at autopsy. In view of his findings, the theory of a nutritional disturbance brought about through direct or reflex circulatory disturbances and cau ing anæmic necrosis or hæmorghagic in farction in otherwise normal gastric mucosa as a starting point for peptic digestion appears to him utterly untenable On the other hand unflam matory changes in the mucosa without any evidence of peptic digestion were observed with great regularity. The periodicity of the clinical symptoms may find an explanation in the tend ency of these crosions to heal

The conclusion was drawn that the development of gastne or duodenal ulcer depends upon a more or less acute inflammatory process of the mucosa, as the result of which the gastine junccan evert is proteolytic action upon the damaged area. Because of functional motor activity the resulting superficial defects or crossons of the mucous membrane can develop into chronic ulcers

The occurrence of a local gastnits in the vicinity of an ulter was well recognized but was always regarded as secondary to the ulter. The idea that it may be the cause rather than the effect was first conceived by Cruveilhier and later emphasized by Mathieu. Paul Cohnheim considered 'and gastnits' the first step in the development of a gastner or duodenal ulter. Nauwerck, in 169c expressed the belief that the gastritis might be the primary condition and the cause of an ulter. He coined for it the comprehensule term gastritis knowned ultersule.

If it be true that the crossons found in the areas of inflammation are the starting points of ulcer formation it remains only to follow or rather to evident their conversion into chrome ulcers. This phase of the problem has been elucidated by Aschoff and his school. In his anatomical mechanical or motor functional theory Aschoff endeavors to explain the relation of mucosal crossons to chromic ulcer.

V MECHANICAL OR MOTOR FUNCTIONAL THEORY

Essential to the understanding of the me chanical or motor functional theory is Ascholfs conception of the function of the so called 'Magenstrasse —the gastric pathway or gastric channel, and of theisthmusportion of the stomach The name 'Magenstrasse' was applied by Waldeyer in 1908 to a characteristic arrange ment of the folds of gastric mucosa along the lesser curvature

The fact that practically all typical gastne ulcers occur in the area of this gastne channel suggested that for some reason the mageneticase is particularly vulnerable

To demonstrate the existence of the gastric channel Bauer advises fixing the stomach with formaln by the intraviscular route not later than three or four hours after death. Such a stomach still retains its tonus, but is no longer capable of contracting with consequent change of the mucosal topography. When it is opened along the greater curvature, a groove is found in

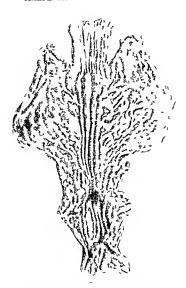


Fig. 1 The stomach of an adult removed two and one half hours after death. The magenstrasse very promunent Note the difference between the mucus folds of the corpus and those of the pylorus (after K. H. Bauer).

the lesser curvature area This groove, which begins at the cardia and runs toward the pylorus, is interrupted at the incisura angularis. It is delineated by two or three wall like longitudinal folds. The base of the groove shows both smooth mucosa and lower ridges. These parallel folds run from the cardia as prolongations of the longitudinal folds of the essophagus, down to the pylorus without exhibiting any communicating transverse folds. They are not demonstrable in greatly distended stomachs. When Bauer introduced 25 per cent sulphuric acid into the stomach of a partly, anæsthetized dog through a stomach tube, the escharotic effect of the acid was confined to the magenstrasse.

The fold system of the gastric mucosa is of course due to its redundancy. The tone and the contractions of the gastric musculature throw the

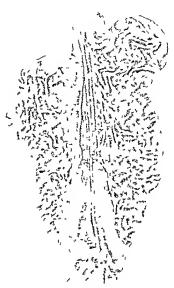


Fig 2 Human stomach removed one and one half hours after death fixed for twenty four hours, and then opened (after K. H. Bauer)

redundant mucosa into folds. The topography of the gastric mucosa is therefore the anatomical expression of the functional activity of the gastric musculature. What determines the peculiar arrangement of the gastric pathway? The answer must be found in a study of its muscular structure. As is known, the stomach, unlike the rest of the gastro intestinal tract, possesses three muscular layers, a longitudinal, a circular, and an oblique layer. Bauer has demonstrated that the special anatomical character of the oblique fibers in addition to the longitudinal and circular fibers.

Contraction of the circular fibers throws the mucosa into longitudinal folds and narrows the stomach throughout, but it is the presence of oblique fibers that explains the persistence of the



Fig. 3 I resions of the gastric pathway (Alter Stroh meyer)

longitudinal folds of the magenitrasse. The synergy-tic action of the circular with the oblique fibers forming horseshoe like interlating bur dies explains why as shown roentgenologically food will be held at the carda for a considerable time although this area possesses no sphineter. The longitudinal folds of the gastric channel cease at the incisura because the oblique fibers cease at that point.

The gastric channel therefore differs from the rest of the stomach in that it has a characteristic musculature. By the contraction of its fibers it can form a lumen of its own distinct from that of the rest of the stomach Bauer concludes that the structure and the function of the magen strasse suggest that it is the phylogenetic rudiment of the gullet of ruminating animals. The human stomach represents the welding of two organs The greater vulnerability of the magenstrasse is explainable on the ground that it is not well adapted to be a part of the digesting stomach, being in reality a survival of the original gullet The pathogenesis of the magenstrasse therefore falls in a class with that of the appendix and the gall bladder. In other words it shares together with the latter structures the disposition of all rudimentary organs

Aschoff points out that the blood supply of the magenstrasse is not as rich as that of the fundus portion. The fundus is supplied by the branches of the right and left gastro epiploic arteries and by the collateral branches from the gastric artery The gastric channel is supplied by the recurrent branches of the gastric or pyloric arteries only

Ligation experiments performed by kano on rabbits (unpublished, quoted by Aschoff) dem onstrated the difference Ligation in the region of the gastro-epiploic arteries had no recognizable effect upon the fundal mucosa, whereas heation in the area of the gastric or pylonic artery led to localized nutritional disturbances which were demonstrated by the subsequent intravenous in jection of dyes. The mucous membrane areas belonging to the ligated vessels remained more or less coloriess Aschoff thinks that in man also, arterial blocking must play a particular rôle in the origin of these changes in the gastric channel Moreover, he calls attention to the fact that the branches of the gastric artery have a segmental arrangement in the gastric wall and the areas between these may be particularly affected by the frequent and powerful contractions of the magenstrasse

It is interesting to examine Aschoff's views regarding the origin of the erosion itself. He in sists upon differentiating between hamorrhagic erosions of the fundus and erosions of the gastric channel These lesions owe their origin to entirely different conditions, but in neither case do infectious torue infectious or mechanical factors play a prominent part. He sees in circulatory disturbances the probable cause of both Fundus erosions are caused by venous stasis and the spasmodic movement of vomiting Erosions of the magenstrasse are probably the result of the peculiar spastic condition of the channel itself or of arterial blocking. In view of Konjetzny's histological studies embolic blocking can be ruled out. Atherosclerotic changes are more frequent but they are also unusual since these erosions and ulcers develop in the young and the middle aged. It is possible that spastic contractions of the vessels themselves may be re sponsible While experimental evidence is lacking Aschoff is inclined to believe that such contractions play an important part in the origin of erosions of the magenstrasse

The isthmus is to be looked upon not as a special anatomical structure, but as a functional one. It was first described by Forsell as the narrow pass. Ashoff frequently observed it mexamining the stomachs of recently killed soldiers during the late war. It represents a tonic on traction of a part of the stomach. On a mixed the isthmus takes on the shape of a funnel through which the fluid contents rapidly digested in the corpus are transported to the vestibule

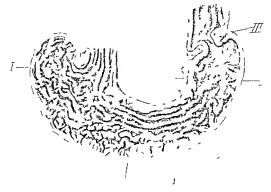


Fig. 4 I Limit between the forms and the corpus II Limit between the infundibulum and pylonic canal III Limit between the pylonic canal and duodenum i Isthmus (After Aschoff)

and from there are evacuated by the contraction of the pyloric canal

The gastric channel extends from the cardia to the beginning of the pyloric canal The impression is given that the gastric channel and the pylonic canal should be regarded as one functional unit The separation of the magenstrasse from the rest of the stomach can be well recognized even on transverse section throughout a contracted stom ach It can then be seen that the channel, now better called the groove, is limited by the four familiar folds, while the folds of the fundus lie irregularly, one against the other One gains the impression that the contracted, i.e., more or less empty stomach drains the juices from the fundus into the gastric groove so that they may flow toward the pylorus To this conception the ob jection has been raised that no such gradual opening out of the stomach from the gastric groove is to be seen in roentgenograms. Very recently, however, Orator has been able to show just such opening pictures in his roentgenological studies at the Vienna Surgical Chnic With the rapid introduction of an opaque meal, the fold system opens up very quickly so that these differences are not recognizable

It is now quite evident that the fate of an erosion in the magenstrasse will be quite different from that in the fundus In the latter one finds

the greatest mobility of the fold system, in the former taut longitudinal folds. The findus discharges gastric juice, while the magenstrasse receives it and acts as a sort of a drainage tube. Losses of substance in the gastric chainel continue to gape, and they come in contact with the gastric juices much longer and are injured mechanically by the peristaltic movements more than erosions in the fundal portion. Also of importance may be the fact that fundal mucosa secretes a thin mucus which is poured out over the wound surface for protection. This mucous formation has not been observed in the region of the magenstrasse.

To sum up, the particular predilection of the magenstrasse for the development of chronic ulcers is attributed to the following facts

- r As a rudimentary structure the magen strasse is not well adapted to be a part of the digesting stomach
 - 2 Its blood supply is comparatively poor
- 3 Because of its special physiological function as the gastric pathway, it is subjected to frequent and powerful muscle spasms
- 4 The peculiar anatomical arrangement of its folds makes it difficult for a mucosal erosion to heal
- 5 The mucous membrane of this area does not secrete a protective mucin

The last word upon the subject of the pathogenesis of the gastric duodenal ulcer has not vet been spoken. Much new knowledge has been gained from recent histological studies of resected stomachs These studies have given us a new viewpoint namely, the inflammatory theory The work of Aschoff and his collaborators has thrown a flood of light on the subject of the physiology of the stomach New and original conceptions regarding the function of the gastric channel and the isthmus have opened up new vistas. We seem to be on the threshold of a solution of this difficult and important problem

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ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

Ivy R II, and Curtls, L Fractures of the Mandi bie An Analysis of 100 Cases Denial Cosmos, 1926 lxviii 439

The roo cases of fracture of the mandable reviewed by the author did not include fractures resulting from bon' infection or new growths. Ninety per cent of the patients were males, and with one exception all were over 18 years of age. All of the fractures were due to force. Sixty eight per cent were single 3: per cent were double, and one was triple. In ten cases no fixation was necessary. Seventy mine (88 per cent) were treated by wring the upper and lower teeth together. The number of fixations by several different methods the time hetween the injury and the fixation and the time of maintenance of the fixation are given in a table in the original article.

The authors conclude that fractures of the man dible demand the most accurate reduction and approximation of the fragments hased on proper occlusion of the teeth, and that in 90 per cent of the cases of any type of fracture of the mandible the simplest and most effective method of fixation is intermacullary wiring of the teeth

EMIL C ROBITSHER, M D

EYE

Weeks J E Tuberculosis of the Eye Am J Ophih 1926 3 s 1x 243

The various manifestations of tuberculosis in different parts of the eychall and its adnexa are described henely. The different tuberculins commonly employed are compared and their use in diagnosis is discussed. The author comments also upon tuberculin treatment and its results.

THOMAS D ALLEN M D

Verhoeff, F. H. A Case of Metastatic Intra Ocular Mycosis Arch Ophile, 1926 by 225

Verhoeff reports a case of metastatic intra ocular infection with organisms which formed granules and clubs resembling those found in actinomycosis. The organisms differed from actinomyces in that the filaments which composed the granules were more delicate, unbranched, and grann negative. They were not acid fast

The eye was enucleated, but the patient had fever and enlargement of the liver and there were evidences of endocarditis Potassium iodide was administered, but the condition continued and

death occurred five months after the onset of the first symptoms

It is suggested that similar cases without ocular involvement may sometimes escape recognition

Sauret A Durs. M D

Lancaster W B The Fusion Faculty and Some of its Anomalies Am J Ophth, 1926 3 s 1x, 247

Lancaster hnefly reviews the development of the fusion faculty in animals. In most lower animals the fusion faculty is little needed or developed. In the carmivora and animals that live in trees accurate judgment of distance is important. The eyes therefore turn forward so that the fields of vision overlap and hinocular fusion develops. The mechan is an necessary to secure hinocular vision includes fihers connecting the eye and various visual centers and the motor apparatus.

Points not on the horopter impressing points of the retina not identical give the sense of depth Different lights and colors falling on corresponding points of the two eyes lead to rivalry of the two retinal fields and diplopia. Suppression of one retinal image is learned when it serves to meet the visual needs THOMAS DALLEN, M.D.

Suker G F and Cushman, B An Improved Technique for Iridectomy for Glaucoma Am J Ophth 1926 3 s 1x 268

In indectomy as performed by the authors a curvilinear conjunctivel incision is made about half way between the limbus and the insertion of the superior rectus with its convexity toward the cornea. The flap is then dissected free from the limbus of which from 6 to 8 mm is exposed, and the dissection continued slightly beyond the limbus without splitting the cornea. A cataract kinfe is then introduced vertically r or 2 mm above the limbus at either end of the exposed sclera and thrust cm into the anterior chamber, just an anterior to the ins the section being then completed by an upward sawing cut to a point opposite the wound of en trance. This gives a shelving serrated incision practically through the scleral spur

The MS is seized with a forceps drawn out gently and downward and forward toward the cornea with an ins scissors, successive small micks are made in the ins one blade being kept under the upper sclerid edge until the opposite end of the section is reached. The ins is then drawn in the opposite direction and severed completely

The conjunctival flap is replaced by stroking with a spatula Sutures are rarely necessary

The advantages claimed for this method are the conjunctival flap the cicatrix away from cornea

18.

tissue a serrated scleral section favoring a filtering scar and prompt healing. The tension is reduced and remains so without the use of miotics the operation a per cent atropine may be instilled The danger of late infection is very slight Drawing the ins downward without tearing it favors the deposit of iris pigment in the wound From twenty four to forty eight hours after the operation the suspensory ligament and occasionally the ciliary body are visible through the coloboma. When the anterior chamber is obliterated the section may be made as in a cyclodialysis Scopolamine and mor phine are used before the operation in all cases SMULL A DURK MD

Obarrio P Lid Traction the Greatest Safeenard Against Vitreous Loss in Cataract Operation im J Ophth 1926 3 s IT 264

Decrea ed intra ocular tension renders vitreous loss less probable while pressure on the globe causes loss of vitreous by increasing the intra ocular ten Traction on the hids causes collapse of the cornea and diminishes tension making instru mentation safer particularly the use of a lens spoon or loop. The mechanical principles and the anat omy involved are discussed The speculum used by Obarno is similar to de Lapersonne s speculum It has blades which fit well with little tendency to shp and between the arms and the blades are hinges which make it possible to rotate the arms backward or forward without disturbing the relation between blades and the lide

The assistant seize the speculum as soon as the corneal section is completed and makes traction constantly on both lids until the eye is bandaged The operator's movements are anticipated in order that he may be given the best exposure as all times In enucleations pressure is made on the hids to

cause the eye to move forward SAMUEL A DURR M D

EAR

Shambaugh G E The Development of the Mem branous Labyrinth Arch Otolorungol 1926

According to Shambaugh one of the difficulties in preparing sections for microscopic study of the internal ear is the securing of sections which will present the relationships in such a way that they can readily be understood. The labyrinth of the ear of the domestic pig is particularly suitable for such preparations becau e in the embryo as well as in the newborn me it can be separated with its cansule from the surrounding structures with little diffi ulty Shambaugh describes and illustrates five prep

arations as follows

First preparation (Fig. 1) This preparation was obtained from a pig 3 5 cm long. The se tion is horizontal passing through the cochles and vests

bule and the posterior part of the capsule which contains the semicircular canals Included in this preparation is the stapes. The cartilage forming the antenor part of the stapes is directly continuous with that of the capsule whereas the posterior border of the stapes has already separated from this capsular cartilage through the formation of connective tissue

The relations of the facial nerve and large blood vessels the location of important structures such as the saccule the utricle and the maculæ acusticæ and the location of the semicircular canals in the posterior part of the preparation and of the coch lea and ductus cochleans in the anterior part are

described in detail

Second preparation (Fig 2) This preparation shows a marked advance over that from the 25 cm embryo The structures forming the beginning of the perilymphatic vestibule and those which enter into the formation of Cortis organ are de scribed

Third preparation (Fig. 3) This section again passes through the niche of the oval window in which is recognized the cartilage forming the stapes Attention is called to the thickening of the epithe hum in the saccule and utricle for the formation of the maculæ and the plane of these two end organs iving at right angles to each other. No sign

of an otolith membrane is as yet seen

In the basal coil at the lower right hand corner of Figure 3 the absorption of the connective tissue returnium surrounding the ductus cochlearis is well started The beginning of a scala vestibuli above and of a scala tympani below is recognized. The upper wall of the ductus cochlears goes to form the membrane of Reissner The absorption of connec tive tissue for the formation of the scala tympani is not advanced far enough to form a recognizable membrana basilans

Fourth preparation (Fig. 4) In this preparation the cros section of the cochlea as known in adult life becomes recognizable. Attention is directed to the changes in the epithelial thickening forming, Cortis organ also to the development of a sub stantial membrana tectoria. The development of the scala tympani throughout the basal coil has progressed far enough to permit the formation of the structure which is later recognized as the mem brann basifaris and in all but the apical coil the

formation of the spiral ganglion is also well ad

Fifth preparation (Fig. 5) This section passes directly through the center of the modicius cutting the ductus cochleans in each of the two and one half coils in a manner which shows Corti s organ to best advantage that 1 parallel with the pillars of Corti The cartilage of the capsule has completely changed into bone and there is a mechanism fully developed and apparently ready to receive impressions from the impulses of sound waves. It seems probable therefore that a newborn pig is capable of hearing

1 R HOILENDER M D



Shambaugh -The Development of the Membranous Labyrinth



Shambaugh -The Development of the Membranous Labyrinth

Hollender A R and Cottle M H A Clinical and Experimental Study with Some Physical Agents in Partial Deafness Preliminary Report Arch Ololaryngol , 1926, m 338

The authors made experimental and clinical studies in an attempt to establish a hasis for the use of diathermy in the treatment of progressive un differentiated defective hearing. They do not main tain that electrophysical therapy is specific or that it replaces other measures which are known to offer a favorable prognosis, but state that in a large series of cases of chronic catarrhal deafness it has heen found of some value even after other measures have failed Further experience may show that it is possible thereby to arrest the symptoms of oto sclerosis

The clinical improvement obtained is dependent upon four factors (r) the nature and extent of the pathological changes, (2) the apparatus and elec trodes used, (3) the manner in which the treatment is applied, and (4) the length of time the treatment 15 continued

The treatment should he applied on the hasis of anatomical principles and continued over a long

The time that has elapsed since the author's experiments has been too short to warrant a decision as to the permanency of the improvement or cure JAMES C BRASWELL, M D

NOSE AND SINUSES

Phelps k A Congenital Occlusion of the Cho nnme Ann Otol Rhinol & Laryngol 1926, xxxv,

Congenital occlusion of the choanæ may be membranous or bony undateral or bilateral, com plete or incomplete and accompanied by other congenital defects. It occurs in females twice as often as in males and is bilateral three times more frequently than unilateral Undateral occlusion occurs much more commonly on the right side than on the left The condition does not seem to he hereditary

The symptoms of complete obstruction are strik ing as the infant has great difficulty in hreathing and in nursing and its nasal cavities are filled with a peculiar glairy gelatinous secretion Additional findings are anosmia diminished lung expansion on the affected side, an increase in the blood pressure, incontinence of urine, dyspepsia, and dry pharyn gitis

The symptoms of unilateral obstruction are less marked The diagnosis is confirmed by the impossibility of passing a prohe through the nose, hy nasopharyngoscopic examination and by palpa tion with the finger in the nasopharynx

The recognized method of treatment consists in making an opening through the obstruction and removing it In the author's opinion, the posterior portion of the septum should also be removed

GEORGE R. MCAULIFF, M D

Goalwin, H A Some of the Newer Methods of K-Ray Examination of the Paranasal Sinuses, the Optic Canals, the Pharynx, and the Larynx Laryngoscope, 1026, XXXVI, 235

In a rather detailed discussion of some of the newer methods of examining the paranasal sinuses, the optic canals, the pharynx, and the larynx with the X ray, Goalwin calls attention to the fact that the roentgen examination of the paranasal sinuses is probably the most widely used laboratory procedure in rhinology

He contends that the widely prevalent practice of making a diagnosis of sinus conditions from one or two roentgenograms may lead to serious error even in acute cases and is absolutely unreliable in chronic cases The complete examination of the sinuses requires at least seven roentgenograms, a lateral, a postero anterior a cephalodorsoventral, a caudodorsoventral, and an axial roentgenogram and one each of the right and left optic canals

Each sinus has a normal illumination which depends upon its depth as well as the density and thickness of its walls and those of the skull Before a decision is made with regard to the condition of a sinus the normal illumination to be expected must he estimated Such an estimate is made possible only hy a full lateral and full postero anterior view

The roentgenologist should be thoroughly familiar with all of the clinical and roentgenological aspects of the disease, any deformities of the head, and needless to say, the finest details of the anatomy of the head

In roentgenography of the optic canals great precaution is necessary. The size of the focal spot of the tube should he measured and the distance of the focal spot from the plate and of the canal from the plate should be noted

The size of the optic canal cannot be determined directly from the film It must be calculated

The roentgenologist's duty does not end when he makes a diagnosis He should furnish the clinician with all of the anatomical data which can he determined from the roentgenograms as these will be of aid in the treatment A R. HOLLENDER, M D

Dean, L W The Diagnosis and Treatment of Paranasal Sinus Infections in Infants and Young Children Under Ethylene Anæsthesia Laryngoscope 1026, TXXVI 257

In Dean's experience sinus disease in infants and young children which is associated with severe systemic conditions such as arthritis, chorea and nephritis has been slow to yield to treatment Little difficulty has been encountered in diagnosing chronic sinus infection, but eradication of the last trace of the sinus disease has been less simple

Irrigation of the maxillary sinuses is hest accomplished under ethylene anæsthesia

The diagnosis of sinus disease in infants and young children is facilitated by ethylene anæsthesia For operations on the nose or sinuses, chloroform and oxygen are preferred hecause, when they are employed the field is much less bloody and efectrically driven suction machines may be used in the

operating room with safety

Dean now uses a new (echnique in investigating the mavillar) sinuses. Instend of inserting a fong needle through the trocar that has been passed into the sinus he attaches a syringe directly to the trocar and injects stenle normal salt solution into the sinus and aspirates it through the trocar. The trocar has an intenor diameter three times that of the needle formerly used therefore larger pieces of pus and thicker pus may be aspirated. The tech nique described obsistes the danger of injuring the sinus wall by a second needle which as originally used projected beyond the end of the trocar.

The material aspirated is examined macroscopically for pus and sent to the laboratory for micro

sconical examination and culture

A R IfOLIENDER M D

Lodge W O Observations on the Frontal Sinus But II J 1926 1 60

Duning quiet intervals in recurrent catarrhal inflammation a diagnosis is difficult as the nasal chambers appear health; transillumination is of no help and roentgenograms are negative. Hence most reliance must be niveed on the history.

The continued use of an oils spray containing methol chloretone etc may ward off an attack and during an attack the introduction beneath the middle turbinate of cotton pleedges wet with occame and adrenalin may give rehef. Resection of the anterior portion of the middle turbinate with or without probing and dilatation of the duct yields more consistently satisfactor results.

Mucocele is less frequent in the frontal sinus than in the other sinuses. Its development is favored by closure of the outlet and the absence of pyogenic organisms. Surgery is the treatment indicated

Emprema is due to ascending infection from the nose resulting from trauma influenza the presence of foreign bodies or ethmoid suppuration. In this condition also surgery is indicated

Among miscellaneous affections discussed are tuberculosis of the frontal bone gummatous perios titis surcoma and osteoma

GEORGE K MC MUFF M D

Schreiner B F A Report on Fifty Four Cases of Malignant Neoplasms of the Antrum of Highmore 4r h Clin Cancer Research 1925 1 65

Schreiner reports on fifty four cases of tumor of the antrum of Highmore on forty one of which a biopsy was performed. Thirty three of the neo plasms were classified as epitheliomata three as spindle cell sarcomata three as my constrount and two as gaint cell sarcomata. The remaining thirteen which were not examined by biopsy were clinically malignant.

In the period from 1914 to 1920 the treatment usually consisted in the surgical removal of as much of the tumor as possible. In one case treated in June, 1916 resection of the superior matulla was done and followed by the introduction of radium into the cavity of the antrum and the application of low voltage \tau rays from the outside \text{ his patient has been clinically well since November 1916

Since 1920 the practice has been varied. In many cases the implantation of barc tubes into the tumor mass in the intrum has been done through the mouth and in some instances directly through the hard palate which was eroded. The remaining cases have been treated by the insertion of radium seeds or radium tubes filtered through brass and r mm of rubber through an opening made above the alveolar process While in all of the cases treated up to 1920 the radium application was supplemented by low voltage \ rays applied from the outside or by radium packs at a distance of 6 cm more recently high voltage \ ray treat ment divided over a period of from ten to twelve days has been used in the cases in which radium seeds have been implanted or radium tubes applied It has often been necessary to remove sequestra weeks or months following the treatment

The results are summarized as follows

I Five patients who had an epithelioma of the antrum of flighmore have been clinically well for periods ranging from six months to nine years

2 Two patients treated for giant cell sarcoma of the antrum are clinically well eight and one half years and five years respectively after radical surgery and radiation

3 Of the three patients with spindle cell sar coma one has had relief for a year but the two others show no improvement

4 The three pitients with my cosarcoma failed to respond to treatment and died

5 When the disease his metastasized to the regional lymph nodes improvement has only been temporary A R flottener M D

MOUTH

Regaud C Radium Theraps in Cancer of the Tongue and Secondary Insolvement of the Lymph Nodes (Ueber die Radium therapie der Zungenkrebse und ihrer sekundaren Drussner krakungen) Strählentherapie 1925 vt. 23

The author reports upon the results of radum tradation in 174 cases of cancer of the tongue which were treated at the Radum Institute of the University of Paris in the period from 100 to 19 3 Achinical cure 1e disapprearance of the local tongue affection was obtained in eighty-one cases (a6 5 per cent) but in thirty nine of these death resulted from metastases in the limph nodes. At the Cun cer Congress at Strassburg in 1923 the author reported upon the twenty four cured cases which were mediated in 100 and 101 Since were mediated in 100 and 101 Since where mediated in 100 and 101 Since where the considers it justifiable to regard as permanent cures the newly published to regard as permanent cures the newly published cases. Sures were obtained more frequently in

carcinoma of the anterior portion of the dorsum of the tongue than in those of the posterior portion

When the ulcer is very small the diagnosis not entirely certain and the excision of a specimen would be equal to total extination of the lesion the treatment should be surgical. Other cases come within the stope of radium treatment.

Following a brief description of the most effective method of treating with radium the author discusses the metastases in the lymph nodes. Whereas for the primary tumor he prefers radium puncture with ½ mm platinum needles he states that this procedure has not stood the test in the treatment of metastases in the lymph nodes. Whenever possible, he does an extirpation and follows it by irradiation as he sees in the great volume of tumors of the lymph nodes a cause for the failure of the radium therapy. Only when operation is impossible with out laying open the carcinomatous area does he sive radium treatment alone.

When lymph node involvement is not evident prophylactic irradiation is necessary only in cancer of the base of the tongue. In carcinoma of the posterior portion of the dorsum radium gives very poor results therefore the author prefers roentgen ray irradiation for this condition. Beenstern (2)

PHARYNX

Mosher, H P Exostoses of the Cervical Vertebræ
as a Cause of Difficulty in Swallowing Larva
soscope 1926 XXXV 181

goscope 1916 xxxxx 181
Orton H B Anterior Dislocation of the Atlas as
a Cause of Inability to Snallow Solid Loods
Laryngoscope 1926 xxxx 183

Mosiler reports two cases of evostosis of the cervical Vertebræ causing difficulty in swallowing. In the first case, that of a soman of 74 years the X-ray showed evostoses of the bodies of the fifth and sixth vertebræ while in the second that of a young woman, it revealed evostoses of the bodies of the sixth and seventh vertebræ

Orrow cites the case of a child of 3 years who regurgitated or expectorated all solid foods as soon as they were given. The child had not been delivered with instruments, but it was claimed that the attendant in awaiting, the arrival of the do.tor retarded the birth of its head. The child was it months old before he was able to bild up his head N ray examination revealed an anterior dislocation of the atlas. The author reports the case becaue of the infrequency of this condition as a cause of difficult in a waillowing.

GEORGE R MC LLUFF M D

NECK

Eliason F L. Inclusion Cysts of the Hyomandibu lar Region Therip Ca 19 6 1 238

The author gives the embryology of inclusion that of the hyomandibular region. The first brin

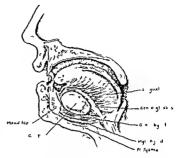


Fig. 1 The sublingual type of cyst occurring above the geniohyoid muscle

chial cleft locates cysts that appear in the aural sub marillars sublingual and submental regions. The hinner of such cysts reproduces the structure of the ectoderm or entoderm. If the external grove fails to become entirely obliterated and closes only at the external surface an inclusion cyst will be the result. This cyst will be laterally placed and lined with epiderm. If it ruptures externally or is opened a brinchial sinus (not instula) results. These cysts have a thick tough wall composed of all the skin

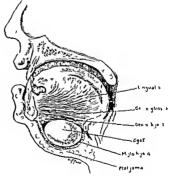


Fig The ubmental type of cost Note the genio hyoid mu cle above and the mylohyoid muscle below

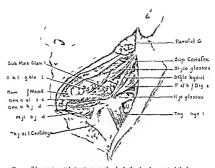


Fig 3 The anatomical structures with which the development of the hyoman dibular cleft is concerned

layers and contain the products of skin activity namely schaceous matter hair and desquamated epi behum

If the ventral or inner groove fails to unite entire by a phary ngeal diverticulum results. If it unites only on the phary ngeal surface a branchial inclusion cyst is formed. The lining of this type of cyst is of entodermic origin and is, composed of mucous mimbrane with a basement layer of columnar epithe lium.

These cysts have a thin friable wall and contain a mucoid substance lymphoid tissue is abundant and striated muscle mucous glands and islands of cartilage may be found

Sublingual cysts or midline cysts come from the ectoderm of the first branchial arch and lie at the base of the tongue above the gemohyoid muscle or between it and the mylohyoid muscle.

The cluncal symptoms of inclusion cysts dep nd upon the position of the cyst. The mass causes a sense of fullness rather than true pain. Cysts of the aural type appear just below and in front of the ear while those of the submanular type appear as gradually increasing swellings between the angle of the jaw and the hyord bone. The sublingual type of the flow of the mouth. Cysts of the submental type cause no inconvenience but are extremely un subtly.

The author reports five cases of inclusion cysts in the hyomandibular region

HOWARD A MCKNIGHT M D

Beylarch A A Discussion of the Clinical Aspects and Histology of Struma and Their Relation slip to One Another on the Basis of the Struma Material in Goettingen 1922 1921 (Klinik und Histologie der Struma in hiem Verhaeltins zu ein werden auf Hand der Goettinger Unter Strumannsterals 1922 1924) Better 2 klin Chri 1935 CSEW 165

The author reviews the clinical syndrome and the histology of its case of struma. The large follicular prohierating forms of struma are very common in Goetting, an Most of the subjects are at the age of puberty. All of the other forms occur at a more advanced period of hite. Frequently a mixed form with size, and small follicles is seen.

In the choice of treatment (todane treatment or operation) the clim al symptoms particularly those of hyperthyroidism must be taken into consideration. The climical symptoms of proliferating struma are sometimes due to mechanical causes and at other times to functional disturbances (hyperthyroidism). At the age of puberty iodine treatment must therefore be given only with great care. Operative procedures result with certainty in a reduction in the size of the gland without functional disturbances.

The Basedow struma and nodular struma belong to a more advanced period of life. In these types hyperthyroidism is less frequent. Everything in dicates that hyp ribroidism is by no means entrely dependent upon the thyroid gland other factors are involved. All in all the hereditary gotter analage and the con tuttion and age of the struma.

are of importance Struma is responsible for a large number of syndromes and as regards its functional manifestations should be judged only from the complete picture presented in the particular case

Aleman O Two Cases of Anterior Mediastinot omy for Struma Intrathorax Acta chirurg Scand 1026 by 135

The author reports two cases of intrathoracic struma with well marked symptoms of compression of the mediastinal organs. In both, the extirpation of the struma by the Sauerbruch Schumacher anterior longitudinal mediastinotomy was followed by a good result.

Clute H M, and Mason R L The Medical Treatment of Hyperthyroidism Ann Clin Med 1926 iv 673

While it is generally admitted that the removal of part of the thyroid gland is the safest surest and quickest method of checking the course of byper thyroidsm the authors emphasize the importance of intensive medical treatment before and after thyroidectomy. The high metabolic rate is best treated with rest. As persons with evopbthalmic goiter do not adjust themselves readily to rest in bed they must be persuaded to control their cease less wasteful movements and excited conversation.

Next in importance to rest is diet. It has been estimated that a man with a metabolic rate of 50+ who is doing a moderate amount of nuiscular work, requires 6 000 calones daily to maintain his weight. To furnish a diet of from 3 000 to 6 000 calones daily, the patient should be given his favorite foods.

Iodine is the only drug of demonstrated ment tending to reduce the basal metabolic rate in hyper thyroidism. It should not be given in cases of ade noma.

A-very troublesome sequela of hyperthyroidism is auricular fibrillation. In the authors clinic this condition has been found in about 35 per cent of the definitely toxic patients. Hamilton states that paroxysimal attacks of auricular fibrillation associated with thyroid toucity cease permanently when the toucity is corrected. This is true only of the purely thyroid heart and not of long established cardiac conditions. ARTWIL I. Sugerfure, M.D.

Musser J H Exophthalmic Goiter and Tuberculosis Ann Clin Med 1926 by 620

Primary tuberculosis of the thyroid gland is very rare after puberty, thyroid tuberculosis is secondary to pulmonary tuberculosis. Tuberculosis is more frequently mistaken for hyperthyroidism than hyperthyroidism for tuberculosis. The author has seen six cases of tuberculosis which had been treated for hyperthyroidism. Symptoms common to both conditions are a loss of weight, fatigue de bilty nervoisness and duarrhea. Anorexia is usually absent in hyperthyroidism but present in tuberculosis.

Hyperthyrodism is characterized by marked over action of the heart, a pronounced vasodilata tion, an increase in the metabolic rate, and a marked increase in the pulse pressure. In tuberculosis the pulse pressure is usually low and the temperature usually rises daily. In the diagnosis of tuberculosis, the von Proquet test is very valuable and the presence of crackling rales with granular breathing is suggestive. ARTHUR L SHREFFLER, M.D.

Koopman, J Conjugal and Luetic Basedow s
Disease (Ueber konjugale und luetische Base
dowsche Krankheit) Wien klin Il chnischr 1925

The occurrence of the same disease (cancer dia betes etc.) in both husband and wife is so seldom observed that no conclusion can be drawn from it Nevertheless the author regards the case of conjugal Basedow's disease which he reports in this article as of importance because of the rartly of the condition in both husband and wife and because it affords an insight into the pathogenesis of certain

Koopman defends the not new but apparently little known theory of the occurrence of a luctuc Basedows disease. This theory has received most attention in the French literature. According to Leonard 30 per cent of cases of Basedow's disease are of luctic origin. It may appear very early after the syphilitic infection (three months) or very late (twenty three years). Tabes and hereditary lues may also cause it. Therefore the Wassermann test should be made in every case of Basedow's disease

In cases of luctic origin todine has often an as tonishing effect Luctic Basedow's disease can be quickly cured Hirsch (Z)

Brodersen N. H. Tetany Following Operations on the Thyroid Gland (Tetanie nach Operationeo an der Schilddrusse) Norsk Mag f Laegeridensk, 1923 lxxvvi 1 93

In the period from January 1 1920 to June 30 1925 647 thyrodectomics were performed at the City Hospital of Drammen Tetany occurred in five cases. In the 30r cases in which the operation was performed for evophthalmic gotter or adenoma tous gotter with byperthyroidism tetany occurred in four (x 3 per cent), while in the 345 in which it was done for simple gotter tetany occurred in one 0.3 per cent. There were no deaths

Why the tetamy occurred in these cases cannot he stated with certainty. In every case in which it developed it followed a radical operation in which only a small portion of the left lobe was left behind in a few rare cases it appears to be an unavoidable complication of the radical operation. Three of the patients whose cases are reviewed were 21 17 and 15 years of age a fact which possibly indicates the necessity for special care in operations on young persons. The chief remedy against tetamy is calcium lactate. Parathyroid tablets are not at all certain in their effect.

| Comparison of the control of the contro

Lakey F 11 The Transplantation of Parathyroids In Partial Thyroidectomy Surg Gyner & Obst 1920 vil 508

Since parathyroids are occasionally removed at operation and identified in the laboratory, they should be carefully searched for in the specimen re moved at operation and if found transplanted

The most convenient site at which to transplant them is the belly of the sternomastod muscle. Care must be taken to see that the cavity into which they are transplanted is dry. LAKES C. BRASWELL M.D.

Simpson W M A Clinical and Pathological Study of Fifty Five Malignant Neoplasms of the Thyroid Gland Ann Clin Med 1926 IV 643

Simp on presents a report on fifty five malignant neoplasms of the thyroid gland hifty of which were carcinoma and five sarcomata. The cases in which these tumors were found constituted 4 og per cent of a surgical series of 1 ago cases of non exophithalmic

gotter No malignancy was found in purely exoph thalmic gotters. Seventy two per cent of the malignant tumors occurred in women. Sixty per cent were unsuspected before the histological examination.

Every hard nodule in the thyroid of a person over 30 years of age should be viewed with suspicion especially if there is a history of relatively rapid increase in the size and hardness of a previously quescent gotter. In the advanced stages metas

tasts to the lungs and hones is common In 30 per cent of the cases reviewed by the author the carcinoma was of the medullary type. Tumors of this type grow with the greatest rapidly and frequently recur and form metastases. In 60 per cent of the cases the tumor was an adenocarc moma and in 4 per cent of the scirrhous type. Sar coma of the thyroid conforms in its growth characteristics to sarroma arsing elsewhere in the body

ARTHUR L SHREPPLER M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Pauls W. E. and Von Redwitz E. Remarks in the Construction and Use of the Meyer Schlueter Sound (Bemerkungen zur Konstruktion und Verwendung der Meyer Schlueterschen Sonde) Deutsche Zisch 7 (Auf 1936 Schlueterschen Sonde)

Paul and von Redwitz recommend the sound devised by Meyer and Schlueter for measuring the electrical resistance of hrain tissue in operations on brain tumors According to their own expenience in several cases and according to reports from

America it is often of great value

The authors have changed its construction so that the electrodes may be moved toward each other and it is possible hy moving them to deter mine the extent of a tumor and to discover very small tumors. By the use of a head piece the opera tor himself can determine the resistance of the tis sues during the performance of an operation

VOY REDWITZ (2)

Yon Sarbó A A Gured Case of Fat Embolism of the Brain Following Fracture of the Leg and Simulating Progressive Paralysis (Em gebelter Fall von Fettembole des Gehims nach Untersche Leibruch im Bilde der progressiven Paralyse ver laufend) Kim II (binkir 1933 in 1018

The most important sign differentiating cerehral fat embolism following fracture of a hone from other cerebral conditions is the free interval hetween the injury and the appearance of the cerebral symptoms. Usually signs of fat emholism of the pulmonary capillanes such as a sticking sensation in the chest shortness of hreath, and cough, occur fast and from several hours to several days after the fracture there is complete loss of consciousness which occurs suddenly or is preceded by a stage of sleepiness. After severe symptoms of irritation the most vanied focal symptoms may be noted

The author reports a case of fat embolism of the hram following a complicated fracture of the leg in a man 56 years of age. The symptoms corresponded to those of progressive paralysis except that the negative result of the serological and spinal fluid examinations ecluded parenchy matous 53 phylis. Undoubtedly, the frontal and parietal lobes were chiefly affected by the embolism. Such an assumption explains the facial paralysis on the left side (focus on the right side in the anterior central gyrus) paralava (supramarginal gyrus), the pararthms 53 llabaris, the verbigeration (third frontal gyrus) and the ultimate disturbance of the total function of the frontal lobes the disornentation for place and time and the tendency of the patient to

play clownish tricks In the course of two months the symptoms slowly receded and a complete mental recovery resulted Lehrnbecher (Z)

Davis, L The Influence of Decompression Operations on Experimentally Produced Papilloedema 1rch Surg 1926 vii 1994

In a large series of dogs Davis produced a most ingemous imitation cerebral tumor by introducing sterile *gr capsules of agar into various portions of the cerebrum and cerebellum through small burr holes. When a subtemporal or suboccipital decompression was done immediately before or after the introduction of the agar, the animals did not develop papilitedema, and survived the operation for several weeks until they were sacrinced, whereis when decompression was not done they died within a few days.

In the case of 'tumors' of the cerebellum, the subtemporal decompression appeared to he quite as effective in preventing symptoms as the sun tentonal decompression. The author questions the correctness of the current opinion that supraten tonal decompression is of no value in cases of suh

tentorial tumor

This study indicates that decompression will alleviate choked disk in cases of tumors of the hrain Davis states expressly however, that he does not favor a palliative decompression if it is possible to localize and attack the original lesion

TRACY J PUTNAM M D

Winkelbauer A and Brunner, H The Treatment of Traumatic Frontal Brain Abscesses (Zur Behandlung der traumatischen Stirnbirnabscesse) Arch f Rin Chr 19 5 exxxvii 160

Seven cases of frontal bram abscesses are reported. The abscess was correctly diagnosed in five. Psychic changes are of great and in the diagnosis. They were noted in four of the authors cases. They consisted in a tendency to play clown ish tricks, a loss of ethical sense stupor, somnolence and a decrease in the perceptive powers. In four cases the diagnosis was further supported by very severe headaches and tenderness to percussion over the frontal bone.

The temperature and cerebrospinal fluid are not very characteristic Dizziness and vomiting (a long time after the accident) occurred in only one of the authors' seven cases. The ophthalmoscopic find ings are of greater significance Papillordem was found twice in five cases. In the authors' opinion the most rehable signs are the nature and site of the injury and the psychic changes.

The success of operative treatment depends upon an early diagnosis If the abscess is not recognized the formation of pacchioman hodies. The proliferation of arachnoid takes place at weak spots in the dura particularly preformed openings such as those for the passage of the vessels It is difficult to determine the cause of this proliferation. In one of the author's cases a purulent otitis was present

As the patients were all old persons it is prob able that there were mild processes of inflammation or irritation of the meninges congestion stasis and temporary changes in spinal fluid pressure hut proliferation of the arachnoid alone could not cause the pseudo cyst. The orifice through which the arachnoid passes is plugged by it and spinal fluid cannot pass through it at least not with sufficient force to distend the dura mater. However when a vessel passes through the opening there may be enough space for the passage of spinal fluid especially when the size of the vessel is changed. The passage of spinal fluid is facilitated by obliquity of the course of the vessel In the cases reported this was marked Changes in the pressure of the spinal fluid also are of influence in the production of these cy sts

None of the cysts reported had caused any symptoms This is not surprising as such cysts grow slowly and do not cause signs of compression because they are in communication with the intraarachnoid space Even when they are completely developed they do not crowd the epidural space because there is a limit to the capacity of the dura mater for expansion Moreover their elongated form makes them readily adaptable to the intra vertebral space AUDREY G MORGAN M D

Experiences with Some Spinal Landelius E Intradural Tumors 1cta chienze Scand 1026

In one case of intradural neuroms affecting the posterior nerve roots and one case of intramedullary tumor the author produced root pain in the lo ality of the spontaneous pains by increasing the cranial pressure during lumbar puncture by the Quecken stedt test viz compression of the veins in the neck

In the first case the only symptoms were root pains and the segment diagnosis was made altogether from the localization of the pains after their nature and localization had been corroborated by the

Queckenstedt test

The author suggests that this observation may prove of value in the diagnosis of spinal intradural tumors at an early stage before the development of paraplegia

PERIPHERAL NERVES

Felix Willy Exerciss of the Phrenic Nerve in Pulmonary Affections (Die Phrenicus Ausschal tung bei Lungenerkrankungen) Erg bn d Chr u Orthop 1925 XVIII 690

This article is a review of the most important facts concerning the history anatomy and tech nique of artificial paralysis of the diaphragm. The author discusses the priority of von Goetze In 1914 Friedrich recomm nded an approach to the dome of the pleura in order to reach deep rafferent fih is of the n rue har chn run 1020 re ommended disruption of the nerve if possible b low its cervical Th suggestion of Walth r Felix made at about the sam time to approach the sub lavian vein in order to disrupt the accessory phrenic lies also within the r alm of technical possibility. If the scalenus anti u mus le is followed downward it is usually possible to rea h will down to the vein Pulling upward on the nerve stem may move the a cessory phr mic which passe in front of the vein and thus identify it for division

With full knowl dge of the so called radical phrenicotoms of von Goetze the work of Felix was completed in 1922 and contains the results of his research condu ted after 1919 on the anatomical experimental and clinical asp cts of the phrenic nerve and exercis of this nerve Up to 1923 von Goetze described his method as phrenicotomy plus division of th subclavius On anatomical grounds th staff of the Munich clinic have been unable to recognize this pro edure as radical and have repeat edly expressed this vi wount. It does not take into account the frequent variations of the phrenic on the other side of the subclavian nerve. Only since this criticism from the Munich clinic has von Goetze presented his procedure with a changed

technique (Surgical Congress of 1024)

The method he uses today is truly radical since he non divides not only the subclavian nerve but also other nerve branches which he in the vicinity and follow a similar course (von Goetze s sub lavian accessory roots) All argument as to priority is groundless since methods for the complete division of the phremic were known before either the Felix or the von Goetze method appeared It is emphasized that the operation though simple is associated with considerable danger because it is frequently per formed by poor surgeons. One of Friedrich's pa tients died from air embolism in the internal jugular vein. In the Munich clinic there were two cases of air embolism with a favorable outcome Sauerbruch mentions among a total of 500 op ra tions two fatal hæmorrhages due to a simple phreni cotomy Mistakes have been made repeatedly in the identification of the nerve At the Munich clinic the sympathetic was divided once with a con sequent Horner syndrome The Sauerbruch clinic has received reports of seven injuries of the vagusone caused by a skilled surgeon-an injury of the thoracicus longus nerve with partial paralysis of the serratus anticus muscle and an injury of the thoracic duct and the cesophagus

At the Muni h and Zurich clinics there have been performed to date 250 phrenicotomies and exercises In no instance has there been any hamorrhage which could be ascribed to the twisting out of the nerve Neither has the operation ever he in followed hy the hursting of a lung abscess or the develop ment of a pneumothorax as reported by you Goetze

Both procedures for artificial paralysis of the dia phragm -von Goetze's operation and the exeresisare effective but exercis is technically more sim

According to the findings of investigations made to date the effect of the permanent paralysis of the diaphragm on the function of important ahdom inal and thoracic organs is quite harmless contention of the Sauerhruch school that phreni cotomy in general cannot he admitted to have an independent importance in the compression theraps of pulmonary tuberculosis is held to be correct con trary to the opinions of von Goetz and Frisch In sixty cases treated by phrenicotomy alone at the Munich clinic the operation was followed by rapid clinical improvement, but actual healing did not occur in any instance Complete disappearance of a cavity as seen hy von Goetze is very rare and should not influence the general prognosis. At the Munich clinic the occasional arrest of expectoration with considerable diminution in the size of small cavities subsequent to paralysis of the diaphragm is ascribed to the mechanical displacement or ohstruction of the cavity outlet

On the basis of his experience at the Munich clinic during the past ten years the author regards as of no importance the injuries supposed by Brauer to occur after permanent paralysis of the diaphragm in pulmonary conditions Exeresis is contra indi cated, however hy severe cardiac pains. Whether long continued tachy cardia which has been noted occasionally after exeresis (in Munich, two or three times in 250 cases) is to be ascribed to the twisting out of the nerve or to the high position of the dia phragm, is still undetermined. The author believes the latter is responsible Emphysematous rigidity of the thorax is also a contra indication. The dan ger of spreading pus into the mediastinum hy pull ing the nerve out in the presence of a tuherculous empyema is not to he feared if force is avoided. In several cases of hronchiectasis treated by artificial paralysis of the diaphragm at the Munich clinic definite improvement resulted hut was only tem GRAF (Z)

Cergely, J and Markovits S Clinical Lessons from 100 Operations on the Phrenic Nerve (Die klinischen Lehren aus 100 Phrenicus Opera tionen) Googgas at 1925 Ixv. 922

Exeresis of the phrenic nerve gives the best re sults in cases with the indications for pneumo thoray that is cases with a free thoracic cavity a freely movable diaphragm and foral propagating and for the most part exudative caseous pulmonary processes. In cases of basal or bilateral disease its results are less favorable

The curative effect of the procedure is due not only to compression but also to immobilization and the elimination of unilateral traction. It gives very excellent results when it is carried out simul taneously with artificial pneumothorax Perma nence of the pneumothorax is assured by it

In cases of non tuherculous processes of the lower lobe (abscess hronchiectasis), it causes only symp tomatic improvement at the most. In empyema, it considerably reduces the size of the cavity

Of eighty nine cases in which exercises of the phrenic nerve was done forty eight showed a good result sixteen, symptomatic improvement nine no change and four an aggravation of the condition Twelve patients died

SYMPATHETIC NERVES

Mandl F The Effect of Paravertebral Injections in Angina Pectoris (Die Wirkung der paraverte bralen Injektion bei Angina pectoris) Arch f klin Chif 1025 CXXXVI 40x

Following a brief discussion of the syndrome of angina pectoris and the various theories as to the cause of the condition the author reports sixteen cases in which be made paravertehral injections of 1/2 per cent novocain or 1/4 per cent tutocaine solu tions The injections were made from the first to the fourth dorsal vertehræ or at one or two of these points and 15 c cm of the solution were injected at each point to adrenalin was added to the solution

In twelve cases good results were obtained and in six of these the effect has been lasting results justify the inclusion of paravertebral injections among the therapeutic measures employed for However the injections are angina pectoris recommended only for cases in which medical measures have failed

The effect of the injections depends upon the exclusion of the sympathetic paths the sensory supply of the heart and aorta The author does not state whether the parasympathetic paths are also interrupted The long continued effect of a single paravertebral injection (the injection was repeated in only one case) Mandl explains hy the assumption that the interruption of the sensors paths produced a marked disturbance in the interplay between the sympathetic and parasympathetics. The failure of the treatment in some cases he attributes to the choice of the wrong segment for the injection or the use of a faulty technique. In conclusion he states that when care is taken the procedure is without danger STARL (Z)

Melzner E An Experimental Contribution on the So called Periarterial Sympathectomy (Ex penmental Bestrag zur sogenannten persartersellen Sympathektomie) Arch f klin Chir 1925, CXXXVI

Following a penarterial sympathectomy on the renal artery of a dog the author was unable to find in the Lidney the slightest microscopic evidence of change The examinations covered a period of from three to seventy days following the operation The kidney with its extremely sensitive tissues remained practically unaffected by the apparently very marked changes in the peripheral circulation caused by the penartenal sympathectomy Melzner says

How much less an effect can be expected in the extremities whose tissues have a so much grosser anatomical structure. He believes that his experiments prove again that the innervation of the blood vessels is segmental.

MISCELLANEOUS

Polissadowa V Restoration of Innervation in Skin Transplants (Ueber die Wiederherstellung der Innervation bei Hauttransplantationen) Zen Irabb f Chir 1925 in 2166

The author made chancal studies with regard to the restoration of innervation in twenty cases of six intransplantation. In most of them a thino plastic operation with the use of a pedunculated flap had been done. Previous to its separation it flap retained sensibility only in the vicinity of its pedicle and immediately after its separation it lost all sensibility. The first sensations to be noted after the transplantation were those of touch in response to pro-pricking. Pain nos-fell only after a month. Sensibility began at the persphery of the flap adjacent to normal itssue and progressed slowly toward the center at the rate of about 0.3 for 10 cm per month. Sensitiveness to temperature was the last to be noted.

In addition the author made histological investigations in a large number of cases with regard to the presence of nerve elements. He found that the growth of nerves runs about parallel with the in crease in sensibility. Even after a long time the flap had very few nerve fibers as compared vith normal skin. Medullary nerve fibers were found in only one case and nerve end apparatus were not demonstrable even at the end of a year.

VOLLHARDT (Z)

Boyd W Three Tumors Arising from Neuro blasts Arch Surg 1926 xis 1931

Three cases of tumor in children are reported in the first case the onign of the neoplasm appeared to be an the medulla of both supracenals and there were metastases in the lever lymph glands ribs and cramum. The tumor was composed mainly of well differentiated cells together with small more primitive cells and bundles of neurofibrils but without needts.

In the second case there was a ganglioneuroma answig in the ganglia of the left abdominal sympa thetic chain and associated with metastases in the ribs and cranium and maldevelopment of the left supraremal medulla.

In the third case a neuro pothelioma of the

In the third case a neuro epithehoma of the retina had metastasized to the liver and other viscera

All three neoplasms may be regarded as develop mental tumors ansung from neuroblasts at different stages of development. The first two appread apparently by way of the lymphatics and the third by the bloodstream in all the striking metastases were an the cramm

SURGERY OF THE CHEST

TRACHEA, LUNGS, AND PLEURA

Guy, J and Elder, H C Radiographic Exploration of Broncho Pulmonary System by Means of Liptodol Edinburgh M J 19 6 ns xxxii 269

For roentgenographic exploration of the broncho pulmonary system the authors inject lipidod by the intercricothyroid route following preliminary anæsthetization of the parts. They then guide the lipidod into the portion of lings to be studied by having the patient assume the most favorable position therefor

Fluoroscopy is used to ascertain whether this has been accomplished, and roentgenograms are made as quickly after the injection as possible. Such complications as have occurred have been of little consequence. In the authors' opinion the results justify wide application of the method in the diag nosis of bronchopulmonary affections.

ADOLPH HAPTUNG, M D

Clerf L H Foreign Bodies in the Tracheobron chial Tree A Report of Cases in Which Bron choscopy Was Not Done Laryngoscope 1926

The author discusses the probability of the spon taneous expulsion of a foreign body from the tracheobronchial tree. He states that before the use of the X-ray statistics which showed the in cidence of such expulsion to be 46 per cent were insteading because expulsion was then one of the chief indications of a foreign body. Jackson estimates the incidence of spontaneous expulsion as between 2 and 3 per cent.

Clerf advises against inversion of the patient because of the danger that the foreign body may become lodged in the glottis and produce asphyua tion

He mentions the many bends in the hronchial tree its entrance narrowed by the glottic chink tracheal reflevion tending to close the glottis and the force of gravity and anatomical and physic logical factors working aguinst spontaneous expulsion

The probability of spontaneous expulsion is in fluenced also by the nature of the foreign body Theoretically, sharp clongated bodies will never be coughed up. They usually he point uppermost and offer little surface to the expiratory blast Heavy metallic objects especially if round tend to seek, lower portions of the tree and to block the bronchus Peripheral to them are is absorbed and a negative pressure is produced Provimally, a ring of inflammatory tissue holds them down. Expulsion of vegetable substances is rare probably because of the swelling of the glottis caused by their ten

dency to lodge in the subglottic space and because of the large quantity of secretion caused by the septic bronchitis and laryngeal spasm. The longer a foreign body has been in place the less the probability that it will be coupled up.

Instances of the spontaneous expulsion of practically every type of foreign body are cited, but Clerf emphasizes the fact that these are exceptions and advises strongly against waiting for such expulsion. In conclusion he quotes Jackson as follows

'We do full justice to our patients when we tell them that while the foreign body may be coughed up it is very dangerous to wait, and further, that the difficulty of removal increases with each hour the body is allowed to remain?

JEROME R HEAD, M D

Clerf L H Bronchoscopic Aids in Thoracic Sur gery Surg Clin A Am, 1926 vi 281

Clerf states that hronchoscopy, while of great value in the treatment of acute suppuration in the upper and middle lobes of the lung, cannot take the picce of surgery in the treatment of chronic suppuration with extensive bronchial dilatation and fibrosis or large abscess cavities situated peripherally

He reports the case of a 17 year old girl with a history of chronic coughing and the expectoration of from 40 to 90 cm daily of thick purilent sputim The pathological changes were limited to the right lower lobe. Weelly aspirations resulted in a decrease in the amount of sputim and relieved the focitid odor. Pneumography showed marked con traction of the lower right lobe and marked dilatation of the bronch down to the terminal ends, little general condition has now improved to such an extent that surgical intervention is feasible.

Clerf reports also the case of a 33 year old man with cough fever, and profuse expectoration due to pathological changes in the right lung Aspiration has been done six times. The first bronchoscopic examination showed pus coming from the orifices of all three lobes of the lung After three aspirations the upper lobe remained clear and the condition of the middle lobe was improved, but the amount of pus remained the same and the loss of weight con Pneumography revealed a rather large cavity in the distribution of the posterior branches of the right lower lobe and involvement of a considerable portion of the middle lobe. As this collection of pus is not favorably situated for spontaneous drainage through the natural passages, external surpery will be necessary

Pneumography is a very valuable aid in the localization of a pus collection and the determination of its extent

IRA FRANK M D

Dworetzky J P Artificial Pneumothorax in the Treatment of Pulmonary Tuberculosis and Its Effects on the Larynx Ann Otol Rhinel & Laryngol 1026 xxxv 42

The author observed that none of his patients with pulmonary tuberculous who were treated by artificial pneumothorax developed lary ngest tuber culous and that pre existent laryngeal lessons were either careed or henefield by the collapse of the lung in contract to this finding he and others have observed that approximately 35 per cent of persons with pulmonary tuberculous who are not treated by artificial pneumothorax develop laryngeal tuberculous.

As he was unable to decover any statistics in the interactions are unable to decover any statistics in the interaction in the author wind letters to numerous understand the interaction in this way be collected a sense of 1 502 uncomplicated cases treated by artificial pineumo thorat Laryngeal involvement developed in only four. He obtained also reports on thirty sea patients with pulmonary tuberculous completated by larvageal tuberculous who are similarly treated Of these twenty six showed improvement of both the pulmonary and the lary ageal leason two deed and in four the condition remained stationary

The beneficial effect of artificial pneumothorax on lart ageal lessons is attributed to the improvement in the general (ondition caused by the collapse of the lung as the result of which the laryax is no longer continually bathed with bacilli laden sputum and is relieved of the irritation caused by

the cough

Feiermann J The Care of the Bronchial Stump Following Amoutation of the Lung (Cur Ver sorgung des Bronchialstumples nach Lungen

JEROME R HEAD M D

amputation) seek thin Chir 1935 cerevity so in their operations on dogs the author tested the three methods of treating the bronchad stump after amputation of the lung namely the method of Tregel that of Frederich and that of Meyer. In Meyers method the stump is crushed and ligated and then burned by perbronchad sutures similar to Lembert sutures. The author considers this method the best but in burving the stump he uses a suture similar to the one used for the stump of the appen div which is known as a dagonal stutter.

Recently in doing a resction of the lung in three dogs he divided the bronchus according to I method of Melinkoff and unted the two branches and to end. The unting sutures were pertironchual and similar to Lembert sutures. Dogs operated upon in this manner survived for almost three months whereas those operated upon by the methods previously used survived at the langest for only seven days.

In a modification of this method which has been used by Melnikoff in investigations on the cadaver the smaller branchus is fitted into the larger one for a distance of from x to x 5 cm after the removal of the murosa.

The author considers the problem of the care of the bronchial stump as solved experimentally but reminds us that the condition in a healthy animal differs from that in the diseased human organi in GLASS (Z).

Miller W S A Study of the Human Pleura Pul monalis Its Relation to the Biebs and Bultz of Emphysema Am J Roenigenol 19 6 x 399

During the past year several lungs used in studies of pulmonary tuberculosis have presented a peculiar unabled appearance of the pleura over more or less cucular areas from 1 to 5 cm in diameter. No adhesions were attached to them. The pleura was freely movable over the underlying pulmonary substance a fact which tended to differentiate the blebs from emphysematous hullæ With a view toward explaining this finding a study was made of the pleura with upe ial reference to the elastic fibers. It was found that in normal pleura anas tomosing fibers extended between the network of elastic fibers in the walls of the alveoli and the elastic fibers within the areolar and clastic layers of the pleura whereas when a bleb was present these anastomosing fihers were ruptured and the pleura nas separated from the nails of the under lvang alveoli

In the cases studied blebs were associated with a nell marked ethipbysema. Rupture of the walls of a dilated alveolus undoubtedly allowed the six to enter the aerolat tissue and dis crt the pleura from the underlying lung. Its extension may be arrested where the septa marking out a secondary lobule oun the pleura or it may extend over a number of

secondary lobules

During life the cavity of a bleb is filled with air The negative pressure within the thorax causes it to project beyond the level of the surrounding pleara. With the cessation of respiration there is no longer an influx of air to keep the thin nailed space distended and when the thorax is opened at an autopsy the negative pressure becomes a positive pressure and the bleb is practically empired of air this giving rise to the wrinkling of the pleara which has been described.

In conclusion the author suggests that some of the annular shadows mentioned in rocation literature may have been due to blebs

ADDITH HAPYONG M D

Carlson E and Bunnell S Can Pleural Effusions Following Thoracotomies Be Prevented by Arti

ficial Precumothorax? Arch Surg 19 6 xu 919
The authors have found that the dog can live for a short time with considerable positive intrajectrit pressure. Eventually however it succumbs to exhaustion.

Pleural effusion does not result invariably when the pleura is damaged. In fact in the authors experiments it was difficult to discover a method of constantly producing fluid. Merely denuding the chest wall of the pleurs was unsuccessful. Even when, in addition to stripping of the pleura over a considerable area, a rih was sawed longitudinally so that raw bone marrow was exposed to the aspirating effect of the negative pressure, no fluid resulted Cauteriang hy heat and then immediately curetting an extensive area of pleura produced fluid in some cases, but in others produced it in only small amounts or not at all However, when cauterization by heat alone was resorted to, as in the last five experiments, considerable amounts of fluid resulted.

Details of the operative technique and two tables showing its results are given. The following con

clusions are drawn

- If the artificial pneumothorax is under sufficient pressure to equal the dogs a greatest inspiratory effort the aspirating effect in producing pleural effusions will be prevented. Such a pressure is plandly incompatible with life, as it prevents air from entering the lungs. If even much less pressure is used the dogs will die from interference with ventilation. The experiments indicate that not enough pressure can he used in artificial pueumothorax either to prevent or to lessen the formation of pleural effusion which so frequently jeopardizes the results following thoracotomy.
- 2 The old procedure of producing adhesions between the visceral and parietal pleura, which was advocated by Sauerbruck and others gives better results. Aspiration of all the air following tight closure of the chest wall and early and repeated aspiration of any fluid formed is therefore in dicated. The fixation of the visceral pleura to the thorace wall by fine catgut sutures might assist in this process.

3 Pneumothora tavors the increase and spread

of pleural infection

4 The danger from excess of pressure of pneu mothorax in healthy, normal persons with a normal mediastinum is hy no means of minor importance CARL R STEINKE M D

ESOPHAGUS AND MEDIASTINUM

Clerf L II Cicatricial Stenosis of the Œsophagus Surg Clin N Am, 19 6 vi 273

A cure of cicatrical stenosis of the asophagus depends on the maintenance of nutrition and the use of a safe and effective method of didatation. The fluoroscope, X ray and excephagoscope should be used to differentiate the condition from maling nancy other forms of asophageal disease and aneutrism. The most common cause of cicatrical stenosis is the accidental ingestion of lye. Three cases are reported.

The first was that of a 2 year old child who had swallowed lye four months before its admission to the hospital. For four days the patient had been unable to swallow his sairva. In the author's opinion, the administration of fluids hy protectly sis and hy podermoclysis, and the performance of a gastrostomy followed by diagnostic resonhaeoscopy.

and possibly retrograde esophagoscopic bouginage should result in a cure

The second case was that of a man 34, vears of age who had had difficulty in swallowing for seven months. The Wassermann test was 4 plus. Examination revealed evidence of extensive chronic asophagitis and a light stenosis 27 cm. from the teeth. A gastrostomy was done and a string placed by retrograde resophagoscopy. Dilatation will be carried out twice weekly until a No. 30 French bougie can be drawn up readily. The patient will then be taught to swallow a woven silk bougie the size of which will be gradually increased to Size 40. As luetic strictures have a tendency to contract, the dilatation must be long continued.

The third case was that of a woman 60 years of age wbo drank lye five months before she was seen by the author The X-ray showed obstruction at the level of the suprasternal notch and also 8 cm above the esophageal hiatus. As the patient s state of nutrition remained fair a gastrostomy was not performed Peroral esophagoscopic bouginage was done at weekly intervals. The upper structure was rapidly dilated to admit a 5 mm full lumen esophagoscope and the lower structure dilated with flexible tup Jackson bougies.

Reineche R Report of an Unusually Large Duerticulum of the (Esophagus Adherent to the Pleura, and Its Surgical Treatment (Selten grosses) pleura adharentes (Esophagusdu-ertikel und seine operative Behandlung) Fortichr a d Geb d'Romigantichheir 1934 (xau 949)

The author reports the case of a man 44 years of age who had an unusually large diverticulum of the asophagus which penetrated deeply into the thorac ic cavity. As feeding through a Witzel fistula for twelve weeks did not improve the patient's poor condition the one stage radical operation was per formed The diverticulum was approached from the right and the back. After subperiosteal resec tion of the ribs, an extrapleural exposure of the pos tenor mediastinum under positive pressure accord ing to the method of Enderlen afforded a very good view The thick firm diverticulum which did not contract after the separation of the adhesions was invaginated and doubly sutured over and the flap of skin muscle and soft parts then completely closed Death occurred suddenly a day and a half later

Autops) revealed partial pneumothorax on the right side posteriority adhesions between the lung and pleura and a firm hæmorrhagic infarct the size of a pigeon s egg in the left lung Grasieri (Z)

Melnikoff A Dislocation of the Larynx and Trachea in the Extippation of Tumors of the Cervical Portion of the Esophagus (Zur Frage der Larynx und Tracheadisokstuon ber Geschwulstextirpation in cervicalen (Esophagus abschnitt) Zenirabli f Chr 1925 in 2479

Carcinoma of the upper portion of the œsophagus often involves the posterior wall of the larynx and

trachea In the removal of the upper portion of the cosophagus in such cases it is necessary to resect the entire largin and a portion of the trachea. Because of the extensive mutilation caused by such a procedure the author has worked out on cadavers and dogs an operation in which by simultaneously dislocating the largin x and trachea. he removes only their posterior wall with the tumor. The largin x and trachea he removed only their posterior wall with the tumor. The largin and a part of the trachea therefore remain connected with the tissues and vessels of the right side of the nick.

The defect is then covered with flaps of slin. The lumina of the traches esophagues and phary average first setured into the slin. At a subsequent operation the larpyrt and traches are replaced in their former positions and united above with the pharynx and below with the traches. This is best done at the time a plastic operation is performed to restore the crosphague.

The author hopes by this operation to preserve all the functions of the voice completely

DENCKS (Z)

MISCELLANEOUS

Butler P F and Habbe J E Problems in the Diagnosis and Treatment of Metastatic Tu mors in the Chest Radiology 1926 v1 400

While metastases of malignant tumors to the abdominal organs spine and long bones may be asymptomiless they are more frequently associated with ascites nerve root pains or spontaneous fractures. Sient metastases are probably associated more frequently with secondary new growths in the chest than with those in any other region.

The majority of patients with well advanced pul monary metastases are free from symptoms. In order to avoid unnecessary and even harmful operations in such cases greater cooperation is necessary be tween the surgeon and radiologist.

Not all cases of metastatic malignancy in the chest are suitable for radiation therapy but when indicated it usually causes marked amelioration of the symptoms and a temporary remission of the disease

STANLEY J SERGIX M D

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Koontz A R Experimental Results in the Use of Dead Fas-na Grafts for Hernia Repair Ann Surg 1926, lxxxiii 5°3

The work of Sencert and Nageotte on the trans plantation of dead tissue is reviewed. In twenty one operations on cats and dogs, Koontz used grafts of dead fascia which bad been preserved in 70 per cent alcohol for from three to twenty one days. Auto grafts isografts, and grafts from different species were employed. The animals were sacrificed from to to seven months after the transplantation. All showed firm union between the dead graft and the living fascia and no evidence of obstruction. Micro scopic examination revealed a close intermingling of fibers.

Large ventral hernix were produced in dogs and completely repaired by dead fascia grafts

Heteroplastic grafts tool, just as well as homo plastic grafts

The article contains a number of excellent illus trations

William J Pickett, M D

Weeks A, and Brooks L. The Treatment of Acute Peritonitis California & West Med 1020 XXIV 622

The advisability of drainage in acute peritorities has been discussed for many years, and although many surgeons now use it less frequently than formerly, the authors believe it is often indicated It aids in removing the towns and favors the evacuation of secondary abscesses through the drainage channel Nothing should be given by mouth as it is necessary to reduce peristalsis to the minimum.

Wet dressings as hot as the skin will bear should be applied over the entire abdomen. Abdominal distention is relieved most safely by tap water enemas or colon irrigations

It is advisable to give a sufficient quantity of opiates to relieve the pain but a quantity sufficient to keep the patient narcotized will paralyze the bowel and reduce the oxidative processes

Gastric lavage at intervals of three or four hours is used when the intestinal contents are regurgitated into the stomach. A duodenal tube may be kept in position for some time by stripping it after it has been properly passed. By this procedure the patient can take a considerable quantity of water into the stomach. Frequent gastric lavage begun early is essential. Five per cent sodium brearbonate and 5 per cent glucose are given by proctodysis as a routine and the flatus is removed by colonic uring atoms. If an insufficient quantity of fluids is an sorbed in this way, from 1500 to 2,000 ccm of

normal salt solution are given beneath the fascia lata and 1 000 c cm of 10 per cent glucose solution are given intravenously once or twice daily

In cases with excessive vomiting and resulting alkalosis large quantities of sodium chloride or 50 ccm of a 5 per cent calcium chloride solution are given together with 1 000 ccm of a 10 per cent glucose solution admisstered intravenously, and from 1 500 to 2 000 ccm of salt solution are injected into the muscles, the bicarbonate solution then heing omitted from the proctoclysis

It is necessary in these cases to keep up the body fluids so that the blood can carry oxygen in sufficient quantities to give glucose to protect the liver function to keep up the chlorides and to maintain the stomach at absolute rest so that the bowel will be placed at rest

The authors report a number of interesting cases, giving the history and treatment in detail Recovery resulted in all HAROLD W. CAMP, M.D.

Steinberg B, and Ecker E E The Effect of Antl serum Against the Coll Soluble Toxic Substance of Bacillus in Bacillus Coll Peritonits J Exper Med 1926 vlin 443

The authors carried out experiments on rabbits of determine the role played by toxins in pentomits and to elaborate an antitorin of the bacillus coll Injections of the toxins of the bacillus coll obtained by centrifugatizing a beef broth culture and destroying any bacilli remaining in the supernatant fluid caused pertonitis and death

An antiserum against the soluble toxic substance of the hacilus coli was elaborated from rabbits which were injected intravenously with the supernatant flind of centralingalized young cultures of the organism. When this antiserum was given intravenously to twelve rabbits immediately or half an hour after the intrapentioneal injection of five times the usual lethal dose of bacillus coli ten of the animals survived. I Edward Briskow, M.D.

Sicard Robineau and Lichtwitz Roentgeno graphic Shadows Sudgesting Calculi in Tuber-culous Pelviperitonitis (Ombres radiographiques pseudo-calculeuses symptomatuques d'une pelvi péntonite tuberculeuses) Bull et mém Soc méd d háp de Par 1026 til 127

A woman 35 years of age entered the hospital complaining of scattica and pain in the right lumbar region. Several years previously she had fever and hecame emacated but did not cough or expectorate. Except for this attack, she had always been well. At the time she entered the hospital her temperature was normal and her general health excellent.

On \ ray examination the spinal column was found normal but the rontigenogram showed two large shadows in the pelvis which suggested hiadder stones. One of these shadows was in front and to the right of the last sacral vertebra. It was the form and size of a pigeon s e.g. and vert much darker than the sacrum. The other was to the left of the fourth sacral vertebra and about the same density as the sacrum. The physical and roentgen examinations of the lungs showed nothing abnormal Cystoscopy, revealed congestion of the bladder but no stone.

At laparotomy a mass was removed from the pelvis. In this mass there were numerous caseous abscesses some zones which were soft and other zones which were elerotic. Histological examina

tion revealed tuberculosis

The roenigen spoits described are often seen in cascous processes in the lung but are rarely oh served in tuberculous peritonitis hexause of the opacity mobility and length of the intestine and the extent of the peritoneum. They can be deterted in peli-peritonitis because the pelive peritoneum in the pouch of Doughs is out of the way of the intestines.

APENET & Moreas M D D.

Cutierrez A Mobilization of the Root of the Mesentery Its Surgical Value (Considerations acerca de la movilización de la rafa del mesenterio su valor quirurgico) Rev de cirug Buenos Aires 19 6 v 65

To trach the lumbosacral sympathetics retropentioneal tumors and stones in the ureter in the region of the lina wessels the author makes an incision slightly below and to the left of the root of the mesentery and displaces the latter hy hlunt dissection upward and to the right. This exposes the structures in the right lumbar region as far as the lower border of the third portion of the duo denum.

By pulling the great vessels over to the left toward the midline the neght lumbar sympathetic trunk may be reached and by prolonging the incision at the lower end slightly to the left and displacing the vessels to the right the left lumbar sympathetic trunk is exposed. To reach the sacral trunk it is necessari only to continue the lower end of the incision downward.

Seven excellent illustrations render a description of the technique practically unnecessary

JOHN W. BRENNAN M.D.

JULY II DEELING DED

GASTRO INTESTINAL TRACT

Dieterich W and Rost F The Effects of Roent gen Ray Irradiation upon the Gastric and In testinal Secretions (Ueber das Verhalten der Magen und Darmsekretion bei Roentgenbestrah lung) Strahlenikerapte 1925 xx 108

To determine the effect of roentgen ray irradia tion upon the secretions of the stomach and intestine the authors carried out experiments on dogs, using a very penetrating ray so that the deep dosage was between 20 and 22 p per cent. The tension of the apparatus ranged from 180 000 to 200 000 volts. The size of the field was 20 by 25 cm and the cur rent was between 25 and 30 cm a falter of 05 mm of zinc and 3 mm of aluminum was used. The por tions of the body not to be irradiated were well protected

It was found that neither massive nor intense tradiation of the head or the lower portions of the body caused any noteworthy decrease in the and or ferment content of the gastine or disolenal secre tions. An occasional increase in the and values and the pepsin content of the gastine secretion which was noted after the lapse of weeks could not be ascribed to the irradiation with certainty. Neither did direct irradiation of the stomach with heavy doese result regularly in a decrease in the and of ferment values.

Von Stapelmohr S. A.C. as of Diffuse Acute Phiegmonous Streptococcus Gastritis Diagnosed During Life Cured with Hourglass Stomach (Weber enem Fall von in vivo diagno timeter diffuser askuter phiegmoneser Streptokokkengastru-Heilung mit Sanduhrmagen) il sen kin il ckn schr 1915 XXXIII 1010

The author reports a case of acute phlegmon of the stomach a condition which as very seldom diag nosed or operated upon. The patient was a woman af y ears of age who had pervously suffered with symptoms resembling those of gastne ulcer and for two days had had a temperature of 193 degrees C associated with very sever, pun and protective tension in the region of the stomach. The rest of the abdomen was negative and the general condution good. After the disappearance of the abdominal tension a hard mass was palpable in the left broochondrum

A laparatomy performed on the muth day under the diagnoss of infected paneratic cyst reveiled a tumor like phlegmonous inflammatory infiltration of the transvers reasonous gastrootic legament transverse colon and omentum which extended unpared to the ordenations stomach which showed similar changes. After separation of a few loops of the small intestine a primary closure of the abdomen was done. Rapid recovery followed. The pure taste from the wall of the stomach showed strepto

cocci and bacillus subtili

When the patient was examined five years later she was free from symptoms but chemical examination revealed absence of free hydrochlone and in the stomach and toentgen examination showed on the lesser curvature an hourglass constriction about the width of a finger

Koene (**)

Greelin E The Diagnosis of Syphilis of the Stom ach (Zur Diagnose der Magenlues) Peile klin Chir 1923 CYXXI 597

With the exception of the rectum the gastro intestinal tract is very rarely involved by syphili In the last 10,000 autopsies at Eppendorf, not one case of syphilis of the stomach was found, and in a period of forty years Fraenkel saw only four In two of the cases seen by Fraenkel the small intesting was also involved.

A clinical diagnosis of syphilis of the stomach cannot he made with certainty but the presence of the condition may be suggested by the history the Wassermann reaction and the results of specific treatment. The most important sign is anacidity

or hypacidity

In two cases which came to operation on Sudeck's service under the diagnosis of ulcer and carcinoma respectively a dense infiltration suggesting an inflammatory process was found. This area was not sharply delineated from the normal tissue. Macro scopically, the resected specimen showed multiple infiltrating ulcers and microscopically an infiltration of the summicosa hy plasma cell and lymphoid elements and occlusion of the lumina of the hlood vessels hy cellular maternal.

Specific treatment is recommended. When the diagnosis is first made during the course of an operation, resection of the affected portion of the stomach should he done.

LEMPS (Z)

Schmid O The Condition of the Vagus Nerve In Cases of Gastric and Duodenal Ulcer (Ueber das Verhalten des Nervus vagus bei Ulcus ventri cult und duodeni) Bisen med Bichnischr 1925 laxi 1904

Bergmann first suggested the spasm or nerve origin of uleer in 1973. His theory was based on the observation that persons with gastric or duodenal uleer show signs of a disturbance of the sympathetic nervous system. He concluded that the primary condition is probably a reflex irritation of the vagus nerve which causes a spasm of the muscula ture of the walls of the stomach. Reference has heen made also by munerous other writers to a relationship between disturbances of the vagus and uleer of the stomach.

Experimental work on the subject however has given very divergent results which do not by any means always support the neurogene theory. To prove this theory it is necessary to demonstrate changes in the vagus in cases of ulcer. In thirty cases of gastric or duodenal ulcer in which the vagus nerves were examined by the author they showed no important differences from those in the control cases. None of the findings indicated dam age to these nerves with certainty. The author therefore concludes that there is no anatomical hassis for Bergmann is theory of ulcer.

Hirscu (Z)

Delore \ Mallet Guy O and Vachev A Multiple and Recurring Forms of Ulcer of the Stomach (Les formes multiples et recubrantes de lucère de l'estomac) Lvon chir 19 5 xxii 620

Chronic ulcer of the stomach may be considered a local lesion subject to cure by local excision. For

ulcers of the lesser curvature excision is the primary treatment. For ulcers of the pylorus excision is secondary to gestro-enterostomy and, after the failure of gastro-enterostomy, is necessary to effect a cure. The late results are excellent. The study reported in this article was limited to the multiple and recurrent forms of ulcer constituting an "ulcer disease of the stomach. The treatment of choice for this condition also is surgical.

The following types of crases are distinguished (r) those in which multiple ulcers (usually two) develop simultaneously or in succession (2) those in which after the cure of an ulcer by gastro enterostomy a new ulcer appears in a different location and (3) those in which an ulcer develops at the site of a resection (this can he properly called

a recurrent ulcer)

The description of the pathological anatoms is based on forty cases. In only seven of these did the ulcers occur simultaneously in the same region. This uncleance is probably ahornmally low because the authors have usually found several ulcers in the same specimen often a large one surrounded his several lesser ones. In thirty three cases ulceration occurred at the pylorus and on the lesser curvature and in two at the pylorus and on the anterior wall Frequently the pylorus lesson is the older of the two as shown by the progress of healing. Only once was the reverse found true

A clinical diagnosis of multiple ulcer should not be made from either the history or the physical examination except in cases of hourglass stomach

combined with pyloric stenosis

When the ulcers occur in the same region, they may be widely excised. After wide exusion of an apparently isolated lesion, examination of the specimen not infrequently reveals the more complicated pathology. When excision necessitates a pylorectomy the operation should be performed in two stages.

An ulcer of the pylorus associated with an ulcer in the body of the stomach neither of which is causing stenosis, is usually hest treated by simple gastro enterostomy This may he expected to cure the lesion of the pylorus and favorably influence the lesion in the body. A wide excision including the pylorus and enough of the hody to include the other ulcer is the operation of choice, but usually the pathological changes render the operation unjusti fiahly long and complicated Under certain cir cumstances a gastro enterostomy may he combined with excision of the ulcer of the hody Occasionally, when there is reason to believe that the lesions are tuberculous surgical treatment is contra indicated hecause of the high mortality of even gastro

Pyloric stenosis with an uncomplicated ulcer of the lesser curvature is an absolute indication for gastro enterostomy. If the lesions prove intract able a secondary resection is indicated

In cases with a pyloric and a midgastric lesion the latter alone producing stenosis, it is best to resect the entire lower portion of the stomach to a sufficient extent to include the midgastralesion Because of the patient's poor condition a prelum inary-mastomosis of the upper pouch and the pjunum may be necessary. When the patient can withstand only the simplest of operations a gastrostomy may be performed and the tube passed into the duo denum.

A double stenosis calls for radical removal of both lesions unless the general condition forbids it or the lesion of the body is too high. Under the latter circumstance a gastro enterostomy with or without

a gastrogastrostomy is performed

In the same class with these complex lessons are the ulters which develop in another location after the cure of a pyloric ulter by gastro enterostomy. When the secondary later is in the jequioum it is usually ascribed to the technique of this gastro enterostomy trauma silk sutures or hemorrhage. This complication is more common than is generally supposed. It is due not to technical errors but to an ulcerative disease of the stomach a condition often associated with tuberculosis. The secondary ulcer may develop also in the lesser curvature in spite of a gastro enterostomy. The treatment is resection.

An ulcer recurring at the site of a resection is rare. It is the more rare the more extensive the resection. The best prevention of recurrence is rigorous post.

operative medical treatment

The author performs the Billroth II operation almost exclusively. He finds that the Pôlya opera tion kinks the intestine in spite of all precautions and the Pean procedure places the anastomosis in the area from which the ulcer have been resected Attack T De Grovt M D.

Amberger Perforation of Gastric and Duodenal Ulcers (Ueber Perforation von Magen und Duodenalge chwueren) Zis hr f aer il I oribild 1925 xxii 545

Like others. Amberger has observed an increase in the number of cases of perforation of gastne and duodenal ulcers in recent years. During the eleven years from 1908 to 1919 he saw eighteen while in the four years from 1910 to 1923 he saw thirts mine. In both periods, op per cent of the patients were males and most of the ulcers were situated in the vicinity of the pylorus so that it was often difficult to determine whether they were in the stomach or the duodenium. The season of the year and trauma had no part in their causastion. It amounts also the part of the process of the year and trauma had no part in their causastion the food-ingested or the videspread use of micronie is responsible for the increase.

Since the prognosis is favorable only in the first

Since the prognosis is tatorable only in the first twelve hours an early diagnosis is important. This is not difficult if the possibility of perforation is home in mind. In doubtful cases it is better to do one lagarotomy too man, than one too fee.

The treatment must be surgical In his first cases Amberger merely closed the perforation by

suture but in his last twenty eight cases he did a postenor gastior enterostom with the modification of Kuuch. The total mortality was 37 per cent which was extremely low. According to 'Umberger the mortality depends less upon the nature of the surgical procedure than upon the length of time that elapses between the occurrence of the perforation and the operation.

Berner J II Internal or Surgical Treatment of Bleeding Gastrie Ulcer? (Interne oder chirur gische Behandlung blutender Magengeschwuere?) Norsk Mag f Laegendensk 1925 Ixxxxx 1329

During the period from 1974 to 1923 the author treated 126 cases of gastire and diudenal harmor thage. Thirts eight of these he excludes from this review because the hleeding was mild and not asso crited with marked anamia. In the eight ei

This series of cases shows that death due to bleed ing from an ulecr is very rare. Hemorrhage from other causes seems to be fatal more frequently. Three, of the deaths in the author, easts were due to avancose gastine hemorrhage associated with liser disease one was due to hemorrhage caused by accuromen and two resulted from hemorrhage due to a harmorrhagic disthesis caused by infection (Reukamia) of these cases none could have been cured by operation. An uller was found at autop y in only four.

The internal treatment of bleeding gastric and

duodenal ulcer gives such good results so far as his se concerned that surgical mensures, are not necessary. At any rate when a patient is morbund the case should not be turned over to the surgeon in order that if death follows a futule operation the surgeon may share in the responsibility. Instead it would be better to adopt fin terrer practice of operating in every case of bleeding gastric ulcer. Rosettivsky (7)

KORITZINDAY (7)

Ochnell II Experiences with the Parenteral In

jection of Albumin in Gastric Duodenal and Jejunal Ulcers (I rahnungen ueber paren terale Euweissbehandlung bei Magen Duodenal and Jejunatulcus) Stenska Laekariidningen 19 vui 807

Since 1923, the author has treated thirty one cases of ulcer with novoprotein. Twenty nine were ambulatory cases. The reactions were not as severe as those described by Cerman physicians.

In the cases of Group :—those not previously treated for ulcer—the treatment resulted in a subjective cure in fifteen and failed in two. In Group 2—cases in which an ulcer duet had been given proussly—it gave a subjective cure inseven and failed in three. Only four cases showed a recurrence after two months.

Important for the success of protein therapy are dietary measures and rest after meals. Ambulatory treatment is to be recommended only for patients

whose living conditions are good

The decision as to the effect of novoprotein treat ment minst almost always be subjective. While this treatment contributes toward a cure in a cer tain percentage of cases it does not by itself constitute an ideal method for the definite cure of ulcer. Hereafter Oehnell intends to place chief reliance on the old methods with rest in bed using ambulators novoprotein treatment only in cases in which the patient's circumstances indicate it.

Gesland (2)

Heyd G G Carcinoma of the Stomach Resection Implantation of the Duodenum into the Pan creas Ann Surg 19 6 IXXXII 546

The patient whose case is reported was a man 43 years of age who gave a history of loss of weight weakness cramp like pains in the epigastrum several hours after eating and tarry stools. The X-ray showed an irregulantly on the mesual surface of the stomach and an arrow canalization through

the distal portion of the pylorus

Operation revealed an infiltrating carcinoma of the distal third of the stomach and protruding through the patulous polorus an annular carcinoma tous ulcer with involvement of the lymph glands along the lesser curvature of the stomach and be

tween the duodenum and pancreas

A subtotal resection of the stomach pylorus and first portion of the duodenum was done and a Billroth II operation performed. As there was in sufficient duodenal tissue for an inversion, the stump of the duodenum was sewed over and implanted into the peritoneum of the pancreas. The operation was followed by the development of a localized empyema evidently secondary to a subpleural abscess which was probably of embolic origin. This was drained. The gastric wound healed thoroughly and the patient was discharged from the hospital thirty three days after the operation on the stomach

I COWARD BISHLOW M D

Hanssen F S The Results of Surgical Treatment of Gastric Cancer (Resultate der chrurtischen Behandlung des Magenkrebes) Norsk Mag f Largevidensk, 19 5 luxvit 1305

Hansen reviews 280 cases of gasting cancer which were treated in the peniod from 1900 to 19 3. One hundred and ninety one of the patients were men. In 25 4 per cent of the cases a gastrictomy was done with an operative mortality of 8.45 per cent. In 26 1 per cent. a gastro enterostomy with an operative mortality of 210 per cent. and in 10.3 per cent. an exploratory lapatotomy with an operative mortality of 10.3 p.r. cent. In 20 per cent. vanous palliative operations were done and in 26.3 per cent. no operation was performed.

Of fifty one patients subjected to gastrectoms more than three years ago fifteen (294 per cent)

lived three years or longer after the operation but eight of them died from recurrence of the carcinoma from three to seven years after the operation Seven patients were still alive from three and one half to fifteen years after the operation six were cured and one patient who was operated upon seven years ago is now suffering from pernicious angemia

The length of time between the appearance of the first symptoms and the patient's admission to the hospital was on the average the same for those operated upon radically later as for those operated upon otherwise. The duration of life after operation averaged 658 days in cases of gastrectom 25 days in cases of gastre onterostomy and 127 days in cases in which an exploratory laparotomy or no operation was performed Koritzinsky (Z)

Gosset, A and Thalheimer, M. Pulmonary Complications in Gastric Surgery Autohaemo therapy (A propos des complications pulmoraires dans la chirurgie gastrique autohémothérapie). Bull et mém Soc not dechir. 19 6, lin 193.

The pulmonary complications which frequently follow gastic operations are usually mild but occasionally may be quite severe. In 248 cases in which Gosset and his assistants performed a gastic operation in 1925 there were seven fatal pulmonary complications. In three in which an autopsy was performed a massive pneumonia was found.

Chincally the pulmonary complications were of two types. In one the temperature rose the first evening to about 39 degrees C and the chest be came filled with coarse rales but defervescence occurred after one or two days. In the other the temperature rose on the third or fourth day and remained persistently elevated while the signs of a true bronchopneumonia developed in the chest. In some cases the expectoration became fectuic indicating the presence of gangrene and in one case severe hampits is occurred. The treatment of these complications is briefly discussed.

Following Vorschuetz and de Graser, the authors treated seven cases of pulmonary complications by injecting the patient's own whole blood. In three of these cases the complications followed a gastric operation. From 20 to 30 c cm of blood drawn from an arm vein were reinjected into the muscles of the high. Usually the temperature fell after about twenty six hours and simultaneously, the auscultatory signs began to disappear. This result could not be obtained after the third day of the infection. In no instance did the injections have any untoward effect.

LAMENCE LACQUES WID.

Delore X Creyssel J and de Rougemont J Pre Operative and Postoperative Care in Stomach Operations (Les soms pré et post opératores dans les interventions gastriques) Presse med Par 19 5 xxuil 1410

In addition to the ordinary pre operative care given in any case in which a laparotomy is to be

performed the authors believe that when a gastree operation is indicated pre operative gastrac lavage should be done except in a few rare instances. The objection sometimes urged that it shocks the all ready weakened patient is not tenable since experience has shown that the weakest patients bear lavage very well and these are the ones that would be most injured by the absorption of retuned gastric fluid. If llavage is performed gently and slowly with hot liquid there is no danger that it will cause hemorrhage except possibly when copous harmorrhage except possibly when copous harmorrhage except load in the excelling before the operation and followed by a limited to excell the tenth of the control of t

In addition the mouth and teeth should be care fully disinfe ted for several days before the operation and if necessary, fluid should be supplied by repeated injections of physiological salt solution. If duress is low (,00 to 850 c cm of unne for example) glucose solution should be given. Roentgen examination should be avoided the day before the operation unless it is absolutely necessary. The presence of bismuth in the stomach during operation in the stomach during operation is troublesome and seems to favor sensation.

of the sutures

Postoperative gastric lavage is very beneficial when indicated but should not be practiced rou tinely to prevent possible complications. The chief essential in the postoperative care of the normal case is nutrition. It has been the custom to give nothing but liquid for several days but semiliquid food may b given on the second or third day This may save the lives of patients who otherwise would die of acute manition and dehydration with second ary toxic symptoms due without doubt to arrest of kidney elimination. Of course the feeding depends upon the indications in the particular case. In a case of non stenotic ulcer treated by simple gastroenterostomy fasting will do no harm while in a case of stenosis from tumor nourishment should he given as soon as possible

The most frequent postoperative complication is hemorrhage into the stomach. This is generally shown by the repeated vomiting of small amounts of liquid mixed with dark blood. The treatment is hot gastric lavage which not only removes the blood but usually restores the muscle tonus. If instead of regaining its tonicity the picture of acute dilatation develops evacuation and hot lavage are indicated but if true peritonitis has developed lavage will do no good and the ordinary treatment for peritonitis should be given.

Sometimes a vicious circle is established and at the end of the first or the beginning of the second week the patient begins to have uncontrollable bilious vomiting. Lavage may be tried but if alish and the symptoms grow worse operation must be performed at once. Two other complications which require operation are occlusion by the but ton and secondary closure of the opening by cera trical contraction. The former occurs between the twelfth and twentieth days when the anastomosing button is expelled and the latter generally at the end of from one to three months but sometimes later

AUDRIN G MORGIN M D

Butler E and Delprat G D Intestinat Obstruc

This article is based upon ninety three cases of intestinal obstruction operated upon at the San Francisco Emergency Hospital with a mortality of 344 per cent. The treatment given in such cases is as follows.

One thousand cubic centimeters of a 10 per cent glucose solution are given intravenously and if the patient is toruc and dehydrated very slowly. Hypo dermodysis Weeks drip and gastric lavage are

employed if the operation is delayed

The field of operation is dry shaved scrubbed with either and alcohol and panied with a per cent alcoholic solution of piene and Ether anesthesia used when the cause of obstruction is undeter mined as in cases of internal herma volvalus or adhesions while mitrous outde-oxygen or local anasthesia is employed when the obstruction is produced by a strangulation Enterostomes are usually done under local anasthesia. During the operation normal salt solution is given subcuta neously into the auillie or deep into the muscles of the thighs if the surgeon deem it necessia.

If the cause of the obstruction is not evident at once the hand is introduced when the peritoneum is opened and a search is made for the site of the obstruction. Any band of adhesions volvulus thickened bowle tumor or fixed bowle is usually palpated immediately. This procedure very often does away with unnecessary handling of loons of

distended howel

Matthews believes that enterostomy in the first loop of jejunum and immediately above the obstruction if there is any damage to the muscular wall should always be performed particularly if con-

siderable comiting has occurred

After the operation in the authors cases the nurse is instructed to flush the catheter with normal salt solution every two hours or if it becomes plugged more frequently. The catheter is connected with a bottle hanging on the side of the bed The quantity of fluid that will be drained from the upper plunum in the first twenty four bours is large. If the drainage is continuous the toxic condition rapidly improves and vomiting seldom occurs. Fluids are supplied to the tissues intravenou. If increasing the thin the plus of the tissues intravenous and in tramuscular injection.

Weeks drip three hours on and one hour off is begun immediately upon the patients return from the operating room. The first fluid that enters the rectum contains 2 dr of the ture of digitalis. Hot compresses to the abdomen are comforting and promote carry persitalisy. The utilities never give pituitin until persitaliss has begun Morphine sulphate should not he withheld as the patient must he kept comfortable. The interestomy tube is removed as soon as peristalsis is active and the bowels have moved

In none of the authors' cases has there been any disturbance from the fistula after the removal of the enterostomy tube

CARL R STRINGE M D

Perimann J Clinical Contributions on the Pathology and Surgical Treatment of Intes tinal Obstruction (Klinische Beitraege zur Pathologie und chrurgischen Behandlung des Darm verschlusses) 4rch f klin Chr. 1925 (2xxvi 245

In 215 cases of ileus operated upon during twenty years there were 200 cases of mechanical ileus and ten cases of adynamic ileus. Eighty per cent of the pitients with mechanical ileus were males. In the Iti cases of volvulus the ratio of males to females was 8 to 1. These constituted 50 per cent of the total number of cases of ileus. The mortality was quite high—in the total number of cases 58 per cent and in the cases of volvulus of the small in testine 70 per cent.

Obturation ileus should be treated operatively, as soon as possible The relatively rarely observed intussusception which occurred in nunction cases is much more common than is generally helieved but is too infrequently diagnosed in children. This fact Perlmann believe is responsible for the high mort-dity from intestinal obstruction in Russian.

Of the operative measures in ileocolic invagination reduction of the invagination gives the hest results

Great emphasis is laid upon the difference between strangulation ileus and obturation ileus. In the former there is an associated constriction of the mesentery

In regard to the etiolog, of volvulus it was oh served that this condition occurred very frequently during the month of August when during the day, the peasants undergo great boddy exertion in gathering the crops and eat nothing and at evening fill their previously empty gastro intestinal canals with large amounts of vegetable food. The high mortality in cases operated upon is attributed to the already existing peritonitis due to the patient's delay in coming to the surgeon

Attention is called to the relatively slight symptoms particularly at first in thirty five cases of volvulus of the sigmoid flexure. In volvulus of the sigmoid flexure the author regards detorsion as the method of choice, and in suitable cases prefers an anastomosis to resection.

Wolf C G L, and Canney J R C The Treat ment of Ileus by Choline Lancet 19 6 ccx 707

Following up experiments in Magnus lahora tory and the work of klee and Grossmann in the Romberg clinic in Munich the authors studied the clinical effects of choline hydrochloride in the treat ment of ileus

The chinical records of four cases treated with choline tend to support the experimental data and

show that intestinal contractions can be easily induced

Therapeutic doses of choline do not seem to be toxic. The drug is administered intravenously in normal saline solution and should be given slowly William E. Shackleton, M.D.

Bolling R W Chronic Irreducible Intussus ception in a Twelve Months Infant Resection Ann Surg., 1926, Ixxxii, 545

Bolling reports the case of a year old infant who was suddenly seized with an illness characterized by vomiting irritability the passage of dark blood and mucus hy rectum and distention of the abdo men. The vomiting and bloody stools ceased and the distention gradually became less but the irrita hilty continued.

When the child was seen by Bolling two weeks later it did not appear acutely ill but was apathetic and somewhat dehydrated Evamination revealed an elongated mass in the upper part of the abdomen on the right side and extending across the midline \text{\chi} ray examination after a hismuth enema confirmed the diagnosis of chromic infussiosception

At operation an intussusception of the ilecoæval region into the splenic flexure was found. Reduction was possible only to the upper portion of the ascending colon. Resection of the distal lieum the accum, and the ascending colon was done and followed by avail anastomosis of the ileum and transverse colon. Recovery resulted I EDWARD BISAROW M.D.

Hertz J and Basset A Cases of Acquired Peri duodenitis (Observations de périduodenite ac outse) Bull et mêm Soc nat de chir 1925 le 1910

In eight of eleven cases of periduodentits the in fection had its origin in the appendix and in three it began in the gall hladder. It reached the periduodenal region by way of the lymphatics and glands and the adhesions formed around inflamed glands. In cases of periduodentits it is therefore important to search for appendicitis, and in cases of appendicits to look for periduodentits. When at operation in cases of periduodentits the cause is not evident in the duodenum or the neighboring organishe appendix should be examined through the same incision and should be removed if it is found diseased.

In the liberation of adhesions heavy bands should be divided between ligatures, and the area should be peritonized as completely as possible. The use of a free omental graft for the peritonization is rarely successful on account of the attenuated infection and the operative site.

When the gastroduodenal disturbances are marked or are likely to recur as the result of the reformation of adhesions, when the adhesions are difficult to liberate or cannot be liberated completely, and when it is impossible to obtain perfect pertomization gastro enterostomy or duodeno jejunostomy should be done

WALTER C BURKET M D

Bolling R W Complete Congenital Obstruction of the Duodenum Duodenojejunostomy at Nine Days 1nn Surg 1926 lyxxin 543

In the case of an infant weighing 6 lb 9 oz at birth and 5 lb when it was 9 days old persistent vomiting occurred and the X ray showed complete obstruction of the duodenum At operation the duodenum was found dilated to two thirds the size of the stomach

In anastomosis between the duodenum and the jejunum was done anterior to the colon. After a stormy convilescence the child mide a good I INVERD BLUKON MD recovery

Kapsinow R The Experimental Production of Duodenal Ulcer by Exclusion of the Bile from the Intestine tan Sure to 6 lyrym (14

In the experiments reported the fundus of the gall bladder was implanted transcortically into the pelvis of the right kidney and when healing was complete the flow of bile was entirely diverted into the urmary tract by ligation and division of the common duct

Of forty three animal treated in this manner seventeen developed typical duodenal ulcers. The lesions were single or multiple and situated usually in the vicinity of the ampulla of Vater. They bore no relationship to the mesentene border of the in testine. They ranged from minute lesions to ulcers measuring from 1 2 to am in diameter Thes had a punched out appearance, the edges overhang Frequently they extended through to the serosa. Their microscopic appearance was that of the subscute or chrome peptic ulcer in man

These experiments showed that duodenal ulcers can be produced without trauma to the intestinal wall and may be caused in dogs not previously diseased. Whether they preceded or followed the nutritional disturbances incident to the exclusion of bile could not be decided. Further experimentation will be necessary to learn the details of the processes leading to their formation

Luis C Kobitshek 31 D

Hiden R L and Orr T G The Effect of Jenu nostomy in Experimental Obstruction of the Jejunum of the Dog J Exper Wed 10 6 thin

The authors carried out experiments on twenty five dogs to determine the effect of jejunostomy alone and combined with the administration of sodium chloride on the chemical changes in the blood and the duration of life in cases of high jejunal obstruction

Obstruction was obtained by dividing the jeju num and invaginating the ends. The jejunostomy was done by the Witzel operation. The following

conclusions are drawn

I lejunostomy does not prevent the develop ment of the chemical changes in the blood which are characteristic of obstruction of the jejunum in the dog

2 Jejunostomy following experimental obstruction of the jejunum does not prolong life. There is some evidence that early jejunostomy may shorten

The treatment of jejunal obstruction with sodium chloride solution tends to prolong the life of animals regardless of the performance of jejunos I EDWARD BISHLOW VID

Radical Operation for Flechtenmacher C Jr Postoperative Peptic Ulcer of the Jejunum with Resection of the Colon and a Contribu tion on the Choice of Operative Procedures for Gastric Uleer (Zur Radikaloperation de Ulcus pepticum jejum postoperativum mit kolonre ek tion zugleich ein Beitrag zur Wahl der Opera tionsmethode des Ulcus ventuculi) Il i n med B chuschr 1925 1881 2581

The author advorates rese tion for p ptic ulcer For gastric ulcer he prefers the Billroth I on ration although the Billroth II operation gives equilly good results The Ireatment of peptic ulcer of the sesumum should be radical surgery. The surg on should not hesitate to remove considerable tissue even the transverse colon. Dietetie after treatment is of importance. Castro enterostomy guaranteeneither the healing of an ulcer nor permanent free dom from symptoms and it does not always pro tect against recurrence or subsequent perforition or hamorrhage. Moreover it permits the confu ion of callous ulcer with executoms and is often followed by pentic ulcer of the jejunum

The author reports several cases showing th excellent results given by resection even in the eases of patients who are in poor condition. He admits however that recurrence may develop even fler uch a radi al op ration. He b lieves that wh n this occurs the tendency to form picers is so strong that the condition is incurable by surgery

For the on ration 1 le htenmacher prefers lo al anysthesia of the abdominal wall and anysthe ia of the splan hair nerve induced by Braun's method He believes that the serious pulmonary complica tion whi h occurred in one of his cases could have been prevented if instead of inducing anysthesia with chloreform and other after making the in ision (whi h was his practice in the cases of the more ensitive patients) he had r hed entir ly upon the local and splan hair anasthesia

Recurrent Appendicitls Following Duettmann Appendice 1 Abscesses (Ueber Appendicitis rezidise nach appendiciti chen 1b ce en) Unen ch n med Bichusche 1925 leen 1870

The author accepts the opinion held at the Gressen Clinic regarding the two stage operation for appen dicular ah cesses and has abandoned the one stage radical pro edure. In 36, cases treated solely by incision of the abs ess there were only three deaths a mortality of o 8 per cent Of the 314 (86 per cent) patients who came to the secondary operation only one died a mortality of o 3 per cent The total

mortality was therefore about 1 09 per cent which is very low as compared with the mortality of the one stage operation (Wolff, 10 per cent Noetzel Riediger 10 2 per ceot, Dewes 6 8 per cent)

When the appendry is not removed at the first operation, new attacks of appendictis are not rare Recurrences have been known to develop as long as nine years after the incision of an abscess. Of the patients whose cases are reviewed by the author thirty five (9.6 per cent) came for a second treat ment for abscess and twelve (3.3 per cent) for a third treatment. All of these were patients who did not return for the second stage of the two stage operation.

Two hundred and eights five patients (8.3 per cent) appeared for the secondary appendectoms after a period of three or four months. Eighteen who returned later were all re operated upon under the diagnosis of acute appendicitis. In most of these cases a severe inflammation was found.

Of the 285 cases operated upon secondarily after a period of three or four months, total obliteration of the appendix had occurred in only eleven. Acute inflummation was found in sixtly five and chronic inflammation in seventy two. In twenty five of those with chronic inflammation there was obliterate tion of the proximal portion of the appendix with dilatation of the peripheral portion by pus. In seventy three cases the tip of the appendix was obliterated but the proximal portion still showed a good covering of mucous membrane. In two cases hasture had formed

Duettmann emphasizes the fact that in all patients operated upon twice or three times for abscesses the appendix was surprisingly well preserved. Therefore, repeated abscess formation does

not always cause obliteration

He therefore agrees with Kuemmel that a radical operation is always best. In view of the exceedingly favorable results obtained at the Giessen Clinic with the two stage operation for appendicular abscess he considers the latter the least dangerous procedure and accordingly the operation of choice. The second operation can be combined with the laparoplasty which is so often necessary as a second procedure following the one stage operation.

LOEHR (Z)

LIVER, GALL BLADDER, PANCREAS AND SPLEEN

Crile G W A Cytoplasmic Rôle of the Liver Th rap Ga 19 6 1 166

Starting with living and 'nonliving substances as chemically identical and separating these substances into atoms, Chie describes the development of life and its reproduction in terms of electricity. He traces the source of life to the vibrant energy of light and inally applies his theory to the

human anatomy, especially the liver and brain

He emphasizes the danger of the cooling of the
viscera in abdominal operations and to prevent it

recommends disthermy to the upper abdomen and lower chest in all laparotomies. He suggests also the substitution of introus oude anaesthesia for ether aoastbesia. In a case which is a poor risk the patient should not be allowed to pass beyond the stage of analgesia reliance being placed chiefly on reguooal anaesthesia. John's Wolffer W. D.

Rubenstone A I and Tuft L A Comparative Study of Liver Functional Tests J Lab & Chn Med 1926 vi 671

The function of the liver is difficult to test as it must be tested indirectly through the blood or life. The liver has a large margin of safety only one fourth of the organ being necessary to maintain normal function and the functions of the liver are multiple being coocerned with the metabolism of carbohydrates protein fat and from the secretion of hile and the filtration from the blood of novious irritants particularly foreign proteins.

In an organ with so many functions it is difficult

for a single test to serve as an index of total function. The harmoclastic crisis of Widal is intended to indicate the albumose storing or proteopeus function of the liver. In the authors, experience, the findings of this test have been variable and difficult to interpret.

The levulose tolerance test is dependent upon the fact that ingested levulose in contrast to glucose, produces only a very slight rise in the blood sugar which seldom lasts longer than an hour. This test may serve as an index of the carboby drate function of the liver but is of clinical assistance only when marked liver changes have occurred. It is of little or no aid in the milder hepatic dysfunction in which a functional test is most desired.

Various diseases of the liver are associated with a marked increase in the bilirubin content of the blood resulting often in frank interior. Between the normal and the point at which frank interior occurs is a period of latent interior in which the bilirulin concentration though increased above the normal

is not sufficient to cause definite jaundice

The quantitative estimation of serum bilirubin is best performed by the method of Van den Bergh or Vleulengracht. The test serves to indicate the extent of impairment of biliary function and the response to treatment. In the authors cases of pundice with a high index improvement was shown by a decrease in the index before any chaoge was detectable in the color of the skin. Patients with cholecystitis had indices varying from oormal up to 15 or more. The index was increased in hepatic cirrhosis. Malignancy of the liver always produced a high index.

The phenoitetrachlorphthalen test of Rosenthal has given good results. The percentage of dve retention was found to be proportional to the degree of liver disfunction reaching 3,5 per cent in the severe types. The injection of so much dye in cases in which the liver is already damaged is not always safe.

Studies of the blood nitrogen partition are of thit value from a practi al clim is standpoint. In cases of advanced liver disease the ur a value is low and the non protein nitrogen value comparatively high but in cases with less severe bepatic diseas the proportion i usually within normal limits. The author combain the tests in the follow

ring may. The patient is prepared as for a levulose tolerance test and the calculated amount of disc contain d in a syringe is made ready. Blood is then withdrawn into two tubes one citrated and one a plain tube Enough blood is withdrawn for alf of the tests Through the same needle the calculated amount of die is injected. The patient their immediatify dirules the levulose solution and thereafter blood is withdrawn into plain and citrated tubes from a veni of the opporties arm at intervals of thirty minutes one hour and two hours.

After the blood has clotted it is centrifugalized and the serum is papetted off. The serum collected before the injection is used for the interest indicate the injection is used for the interest indicate injection is in the injection is in the injection is injection is used for the un antiegen non protein interest and surar determinations. Blood sugar determinations are then done on all bloods (curtacted) taken suppersy in it to the in e tion and the sera are used to determine the dye retention.

Howerd & McKright MD

Berger S S Cohen M B and Selman J J Liver Function Tests A Comparative Study of Five Methods in 100 Clinical Cases J Am W is 1926 Percei 1114

The authors report too cases in which five liver function tests namely the Van den Bergh Widal (hamoclastic crisis). Rosenthal probling and problem and problems tests were made.

Four groups of cases were examined (2) cases of liver disease with jaundice (2) cases of liver disease without rainless jaundice (3) cases in which liver disease was susp ted but not demonstrated clinically and (4) ase in which liver disease was un suspected.

The authors found that the various tests do not give parallel results and were unable to separate chinical cases into those of liver disease and those without liver does e by means of ann one of these tests unsupported by other chinical evidence. We had of the tel. I ver positive thy were dealon, with liver disease of the mot ever type namely that associated with tony jaundice. In every case in which all tests were positive except the Widal test there was obstructive to gain due to the three was obstructive to gain due to the differential diseases.

Fernstroem B A Case of Subphrenic Abscess with Vomited Gall Bladder leta chiring Yeard 1926 lix 534

The author reports a case of gangrenous choic cystitis with abscess formation. When opened the

gall bladder was found to contain gall stones Operation was preceded by the vomiting of blood during which the gall bladder was ejected into the stomach or intestine. Recovery resulted

Graham F A Gall Bladder Diagnosis from the Standpoint of the Surgeon Radiology 1926 vi

Lvon B B V The Evolution of Early to Late Gall
Tract Dis ase A Brief Consideration of its
Diagnosis and Treatment Radiology 1916 vi

Zink O C A Clinical Study of Cholecystitis with the Aid of Cholecystography Radiology 1926 11

George A W The Practical Value of the Craham Cole Method in the Diagnosis of Gall Bladder Disease as Compared with the Older Method Raducles 1025 vs 202

GRAMA calls attention to his previous work showing that h paint is a constant accompaniment of cholecystitis and that carly disposis and treatment is essential for the avoidance of late and permanent changes in the liver and possibly also in the pain creas. In the past the recognition of gall binder disease wa based largely upon the late changes Graham believes that by chole ystographs with the aid of extra sodopin highthristic valuable informs to be obtained and that pervisions of lunction so recognized may lead to the early recognized may lead to the early recognized on a supplier of the continuous conductions are considered to conduction.

The criteria upon which a diagnosis of toblecysit is is to he based differ the abdomen has be nop near the following: (i) stones (2) adh sions of the gall bladder to surrounding structures (3) thickening, and change of color (2) enlargement of the sentine gland of Lund (5) evidences of hepatitis involving chiefly the right lobe of the luver. Occasionally gill bladders are opened and removed when the murosathous changes such as scholesterol plaques.

The growing cound not in the significance of chol cystographic findings has led on several or assons to the removal of a gall bladder which seemed normal on inspection and palpation in every instance in which this was done microscopic examination to veafed pathological changes in the walls of the organ

Efforts have hen made to use substances for chodecastography which will make it possible to obtain information relative to hepatic function by serum tests. An isomer phenolitera isodophishalem has been found to an wer this purpose but sufficient work has not yet been done with it to determine its practical valle.

Lyon contains him ell largely to a discussion of non surgical drainage of the gall bladder and the diagnostic information which may be derived from it the claims that this procedure provides a means of investigating the living histology of the biliary

of investigating the living histology of the bilary tract in much the same way as surgery permits the study of its living pathology. Microscopic study of material asparated from the duodenobility, fract reveals the tupp—degree and source of epithelial exfoliation In the early stages of cholecystitis the changes noted may indicate merely a catarriah process. If this is allowed to run its course extensive and readily recognizable damage may be done to the bepatic, pari-reatic, gall bladder, and hile duct cells

Acute gall hladder disease is usually an acute exacerbation of a chronic process. If traced back, it will often he found to have had its origin in a focal inlection with repeated local manifestations followed by successive gastro intestinal disturbances of an ind-finite nature culminating finally in frain gall bladder symptoms. Non surgical gall hladder drain age not only gives information regarding the presence ol pathological changes, hut may serve to check or cure the process and thus obviate the ne cessity for surgical drainage.

ZINA regards cholecystography as of prime importance in the diagnosis of early cholecystitis. He discusses hirely the relative values of and the indications for the oral and intravenous methods of giving the dye, and states that questionable findings following its oral administration should always he

checked hy its intravenous injection

The diagnosis of gall bladder disease by cholecys tography 10 dependent upon (1) excretion by the liver (2) pitency of the cystic duct, and (3) the mucosal concentrating power of the gall bladder

Failure to obtain a shadow with the use of a stand and technique indicates (1) cystic duct occlusion (2) hepatic insufficiency (3) a small sclerotic gall hladder with an obliterated lumen (4) cystic lymphatic damage or (5) failure of the dye to be absorbed (when it is given orally). In the absence of this conditions the time of appearance density and mobility of the gall hladder shadow are indirect indications of the pathological condition of the mucosa

Cholecy stography gives valuable confirmatory evidence in cases with irank clinical evidences of gall hladder disease, but its greatest value lies in its demonstration of such disease in the early stages when there are only vague gastro intestinal disturbances of doubtful origin. The method was used by Zink in 663 cases. Of 131 of these which were operated upon the findings were confirmed at operation in 66 p.r. cent.

George's experience with cholecystography in gall hladder disease has convinced him that the older method of roentgen examination developed largely hy himself is equally, if not more reliable in diagnosis except with regard to gall stones. The older method is based primarily upon the fact that the pathological gall bladder may he visualized roentgenographically with a proper technique and that secondary evidences obtained with the aid of the opaque meal such as 'gall bladder seats adhesions to the second part of the duodenum filling of the ampulla of Vater and adhesions to the hepatic flexure of the colon are strong indications of cho lecystitis Visualization of the gall hladder after the administration of dye can give information only with regard to the size shape, and location of that

organ Aon visualization although of some value may lead to error, especially when the dye has been administered orally. Variations of emptying time are of doubtful significance because the normal time bas not yet heen accurately determined. With regard to stones. George states that those of the cholesterol type can be detected far more readily after the administration of dye than hy previous methods.

It is George's conviction that the soundest procedure today for the study of the gall hladder is a thorough examination by the older method with substantiation of the findings so obtained by the use of the Graham Cole procedure

ADOLPH HARTLING M D

Babcock W W Cholecystitis and Appendicitis

Surg Clin A Am 1926 V1 20

Babcock W W Cholelithiasis Chronic Salpingo

Oophoritis with Adherent Ahdominal Scars
Surg Clin \ Am 1926 v1 30

For the usual appendectomy the author advocates a transverse skin incision 4 or 5 cm in length, beginning a cm median to the anterosuperior spine of the slium He helieves that the crushing of the appendix with forceps disseminates the infection and that a pursestring suture may contaminate the wound He therefore ligates the appendix and ties the stump of the meso appendix over the stump of the appendix Spinal anasthesia is used in cases with purulent peritonitis due to appendicitis. The appendix is removed and drainage used only for the evacuation of solid exudates foreign bodies, blood or blood clots or old pus Packing sponging wip ing and the introduction of the hand into the abdo men are condemned Salt solution given sub cutaneously is preferred to water by rectum Water and food by mouth are withheld to fayor localization of the infection Localization is in dicated by the subsidence of pain and tympany and the expulsion of gas and faces If the adminis tration of a little liquid by mouth is followed by pain and an increase in the temperature the localization is not sufficient

With regard to gall stones the author states that in the case of an ohee middle aged woman a bis tory of a sudden attack of severe indigestion at might and a sense of epigastire fullness which the patient tried to overcome by helching or vomiting both of which were quite relieved the following day is truer evidence of gall stone obstruction than any known laboratory test or method of physical examination. In certain instances it is well to think of a cardina attack coronary obstruction and aortitis in the diagnosis.

In operations for gall bladder disease the condition of the liver should be noted as it is the hest indication of the prognosis after cholecystectomy. A liver that has been degenerating for from fifteen to twent y ears will not be restored to its primary function by the removal of the gall bladder. When the common duct has been obstructed for some time the author effects gradual decompression of the liver by anastor osing the gall bladder to the duodenum or stomach with the use of an in and out suture which gradually cuts a nev stoma between the two organs. This suture is re-enforced by a continuous seroscrous suture.

In cases of bility fistula in which the gall blidder has been removed Babcock carefully dissects out the fistulous tract and anastomoses it to the duo denum or stomach John A Worfer MD

Fabritus W Spontaneous Perforation in Cholecystitis Without Stones (Spintanperforation by Choleystitis sine concrements) With md Withinskir tass (tax 2880)

The symptoms of cholecistus without stones requestly simulat those of cholethasis and the condition is often not diagnosed until operation is performed. More trie are cases in which a severe chronic inflymmation of the gait bladder decelop without any symptoms until a life threatening complication, suddently decelops and necessitates immediate operation. The author reports a case of the latter type. The patient a previously healthy woman awoke one might with severe pain in the right side of the abdomen. Severe womaning soon set in and there was a typical McBurney pressure pain. A diagnosi of a 13 endicates was made.

The extirpated gill bladder contained no stones and its mucus ment rane showed no utlerous of de tru the princesse. It the point of perforation there was a circumscribed necrosis which pene trated the entire that have so fitbe gall bladder wall COLER (2).

OLLEY (

Bonnet M. L. and Lapoint. M. A. Perloration of n. Cancer of the Call Bridder into the Peritoneal. Cavity. Emergency. Cholecy stostomy and Secondary. Cholecy steetomy. Cure II erforation en peritoine liber d'un cancer d. La vé veide biliaire chol y to scome d'urgence et chokeystertomic (conduire jaurison). Full et mém. Sec. nat. d. chr. 19.0 l. 111.

Bonnet reported the case of a woman 3 years of age who was admitted to the hospital with severe pain in the right hypothondrium associated with muscle spasm and pe satent vorniting a temperature of 38 o degrees C. and a pulle of 110. She had hid a similar attack six months previously.

Liparotomy revealed perforation of the gill bladder and free bile in the puntopeal cavity. The inferior surface of the call bladder was adherent to the transver e colon. Stones were circlully sought bet nete not found. The wound was closed with dramage. Convaluence was uneventful and the patient was discharged after cighteen days with a small bihary fistula. Four months later the fistula was even ed and a subelex-stectomy was done

On examination of the gall bladder one stone was found. Histological examination revealed an atypical growth of the gall bladder cells with evidence of malagnancy. In the author's opinion, this same of primary causes of the gall bladder.

was a case of permany cancer of the gall by adder Lapont calls attention to the narry of cases of rupture of the gall bladder by cancer so far as he is aware no such case has been reported in the internative. He thereves that the diagnoss is possible only at op ration as there are no pathogonomone symptoms.

Sohn A. Fatal Biliary Lerstonitis After Puncture of the Common Duct (Toudische gillige Pettonitis mach Lunktion des Choledochus) Zentraibl f Cher. 1923, ltt. 2578

In a pattent with a p netrating callous vicer of the lesser curvature an anterior gastro enterostomy with a Braun anastomosis was performed and a there was a malformation of the intestine a pune ture of the common duct was done to clear the site of operation. The puncture was done with a record syinge and a very small needle. After the aspiration of bile a hot sail compress was applied to close the small opening. No sepage of bile was noted thereafter. Four days later the patient died of periformits.

Nutops revealed a biling peritorits caused by the scape of bile from the point of puncture. This case shows that after puncture of the biliary tract without drainage the punctures should always be sustered ind that when the common duct is sutured drainage is necessary as a puncture of the wall may reopen.

Paye E. Exposure of the Common Duct in Operation for the Recurrence of Stone After Chole cyatectomy (Fridegun, des Ductus choledochus bei Feridu operationen nach Cholecystektomie) Zeufruld f Chr. 1925 lt. 1936

It is not always possible even with the best etchnique to avoid leaving behind small gall stones bigh up in the branches of the hepatic duct and the p-pilla of Vater. A method of preventin this error which is described by Pary and Jurasz consists in exploring the bility passages with the us of rubbet catheters and a syringe. The author has irreguently observed that secondary operations for the removil of stones from the common duct are a current with disfinculties that are little under another than the properties of the product adhesions and the order on which they should be removed.

Almost always following a cholecystectomy there is found a field of adhesions on the anterior vall of

the abdomen which involves the scar in the abdominal wall, the liver, the transverse colon which is pulled forward, the omentum which is pulled upward and the stomach which is pulled to the right. The separation of these adhesions is easily accomplished by segmental ligation and severance of the omentum. The liver is held up the stomach held to the left and the colon held down.

The next layers of adhesions to be attacked are those which hold the duodenum high up in the gall bladder bed. The adhesions between the liver and the upper horizontal portion of the duodenum are usually dense and the duodenum like a cap con ceals similar structures in the hepatoduodenal ligament. Even when the adhesions are very thick, the duodenum can be easily freed with the kinfe. The vertical portion can then be mobilized by approaching from the right side according to the method of kocher. This exposes the hepatoduodenal ligament.

The papilla can be approached only after the separation of the duodenum from the liver and further mobilization of the angle. If the foramen of Winslow is patent, this dissection can be facilitated by the introduction of the foreinger. The common duct which is greatly dilated by gall stones impacted at the papilla often shimmers through with a blue color and is easily recognized. The passage way should be punctured the bile aspirated two small sutures applied and the duct opened.

Investigations of the retroduodenal portion by means of sounds calculu spoons and forceps and the little finger often establishes the presence of concretions. These can usually be removed easily through the dilated passage. If the duodenum has been sufficiently mobilized from the right side stones in the papilla can be pushed along. The main stem and the two large branches of the hepatic duct should then be examined and a I shaped drain inserted.

Havlicek H. A Case of Rupture of the Pancreas and Spleen Cured by Operation and Some Comments on the Shoulder and Arm Pain (Ein operativ gheliter Fall von Pankreas Milz ruptur und einige Bemerkun, en ueber den Schulter Armschmerz) Zeintelbl f Chir. 1925 lu 1967

The author reports the case of a boy 13 years of age who sustained a rupture of the spleen and pan creas and a dislocation of the hip in a fall. The in jury was followed by severe shock and on explora tory puncture 1 bloody exudate was found in the peritoneal cavity.

At first a temporary clamping of the pediele of the spleen was done and the blood collected in the peritoneal cavity was re infused. When the general condition had improved splenectomy was per formed a piece of the tail of the pancreas which was torn off was removed and the stump of the pancreas was sutured over and invaginated into the posterior wall of the stomach. The abdominal wall was then completely closed.

Convalescence was smooth except for two attacks of severe pain in the left shoulder and arm During the first attack the left radial pulse disappeared entirely and the skin of the arm became cool and cyanotic In both attacks the pain was immediately relieved by a novocain block of the left splanch nic nerve by the method of Kappis In the second attack the blocking of the left phrenic nerve was attempted as an experiment but without any success On the basis of this experience the author is inclined to doubt the importance of the phrenic nerve in the conduction of pain and to conclude that in the production of shoulder pain the sym pathetic system (splanchnic nerve) is more re sponsible BONN (Z)

Johnson A A Pancreatic Disease—With Case Reports J Ioua State M Soc 19 6 xv1 169

The author calls attention to the frequency of pancreatic lesions. In the Mayo Clinic they were found in 27 per cent of 4 000 cases of biliary tract disease.

Because of the protected location of the pancreas trauma rarely plays an important part in pancreatic lesions. This location however is unfavorable with regard to infections as the latter may reach the organ by direct extension through the blood or the lymphatic system or through the ducts.

The main cause of acute pancreatitis is infection which activates the ferments and causes self diges tion of the tissues

In 70 per cent of the crass the symptoms arise so suddenly and are so sever that a detailed history cannot be obtained from the patient. Pancreatic involvement is suggested by sudden pain in the enginetium faintness, and collipse associated with vomiting retching and frequently jaundice. The diagnosis can be assured however only by seeing and feeling the organ. While mild pancreatitis often becomes cured the

incidence of recovery has been increased by surgical drainage

WILLIAU F SHACKLETON, M D

Tower L E The Pathological Physiology of Experimental Gangrenous Pancreatitis J im

To reproduce in animals the clinical picture of acute pancreatitis it is necessary suddenly to devitalize a sufficient amount of pancreatic tissue to cause extensive necrosis and autodigestion of the gland

As far as the author knows, no one has considered the possibility that the toxema in acute pancrea titis may be due to a severe local injury caused by the action of the protein split products on the musculature of the intestines and probably also on that of the vascular system

All of the author's attempts to produce a sterile pancreatins failed Organisms were always found in one or more of the cultures taken from the pertoneal evudate the gangrenous gland localized abscesses etc However the presence of these bacteria appeared to be merely incidental and due to the reduction in the vitality of the tissues caused by the violent toxemia. In the experiments cited the omentum seemed to

In the experiments cited the omentum sees have a detorifying power

Tower suggests that the toxemus of acute pan creatitis acting on the gastro intestinal tract, may produce a toxemus like that associated with para lytic fleus and that therefore the use of sodium chioride as advocated by Haden and Orr or the duodenal registron used in cases of high intestinal obstruction might prove more effective than the introduction of a drain into the pancess.

JACOB S GROVE ALD

Gutlérrez A Implantation into the Stomach of a Pancreatic Fistula Following Cyat (Implantación de fistula pancreática consecutiva a quiste en el catómago) Res de cirig Buenos Area 1925 iv 223

The author reports the case of a 28 year old woman who for two years had had attacks of severe pain in the abdomen which at first was diffuse and then localized in the epigastrium and right hypochondrium and was accompanied by comiting chills and fever. She had also copious diarrhora and her urine was scanty and dark There was no icterus but urticaria develop d dur ing the first attack Some of the attacks kept the patient in bed for as long as thenty five days About two months before she consulted the author she noticed a rather painful tumor in the right hypothondrium and the adjacent part of the epa gastrium. Since then the tumor had in reased in size In the last two months sh had lost 16 kgm in weight

Examination revealed in the right upper quadrant of the abdomen's amount humor shinch was freely movable transversely dull on percussion and sur rounded by a tympanic area. An area of tympany was found also between its upp r margin and the liver. The Wassermann test and time and roent gen examinations were negative. Because of the site and free mobility of the tumor a dangooss of cystic tumor of the transverse mesocolon was made.

At operation performed under general chloroform anassthesia an incision through the upper part of the right rectus showed the tumor to be partly above and partly behind the stomach. Its upper segment was covered by the lesser omentum. It had its origin in the pancress and was independent of the liver. It contained liquid. The head and tail of the paucreas particularly the former showed from the contained on the anterior surface of the isthmus of the surfaces.

When the cyst was welled off and punctured so c cm of a citron yellow liquid was evacuated. The gall bladder was displaced to the right by the cyst and was full of stones. Poppert a cholecystos tomy was performed. The wall of the pancreatic.

cyst was first sutured to the part tal pentoneum and then to the mus le sku layer. The first sutures were of catgut and the second were interrupted sutures of sik. The patient was discharged well on the thirty fifth day but had a fi tulis which dis

charged freely and was very troublesome

At a second op ration the fistulous tract was explored with a sound and found to run backward and toward the midline of the abdomen. An injection of lipsoids showed that it ran transversely at the level of the first lumbar vertebra. Und redioro form anasthesa a sound was introduced into the fietula a silk suture was passed around it and it was closed. A circular incision was the made around it and by vertical incisions it was exposed for its entire length. It was followed down to the head of the pancreas. The stomach wassufficiently prolapsed to expose the nations of the pancreas.

The decision was made to implant the fistulous tract a fibrous cord about the size of a lead pen il into the stomach. This was very easy on account of the ptosis of the stomach Closed Kocher for ceps were introduced into the median part of th anterior surface of the stomach just heneath th fistula passed upward and outward and brought out just beneath the end of the fistula. A part of th fistula was cut off enough being left to introdu e into the stomach. The forceps were then open d and an in ision was made in the stomach wall between its blades. The end of the fistula was pulled into the stomach with the forceps and fixed by means of a catgut suture passed through its wall and the stomach wall Its external surface was fixed to the upp r opening in the stoma h with four sutures of fine silk. The lower op ming was then closed with seroserous sutures. A pad of omentum was placed beneath the free surface of the fistula where it came in contact with the stom Hag dae

The steps in the op ration are shown in illustrations. Healing occurred by first intention. For several days the patient complained of nausea Within two months after the operation she had eauned \$ 5 gam in weight.

ALDREY G MORCAN M D

Harris R I Splenectomy for Purpura Hæmor rhogica Canadian M Ass 1926 vvi 384

Essential thrombocytopænic purpura is differ entiated from the other types of purpura by (1) a low platelet count (2) a prolonged bleeding time with a normal coagulation time (3) a positive capillary resistance test (4) failure of the clot to re tract and (5) enforcement of the solen

Infection plays a prominent part in the production of the obscure pathological changes which give rise to the disease

The most important though not the only factor causing the hamorrhagic condition is the throm bocytopania

Splenectory produces a symptomatic cure
Howard A Mckaight M D

Howard A Mcknight M

MISCELLÀNEOUS

Troell A Comments on the Fahræus Reaction the Stability of the Blood Suspension—in Acute Surgical Affections of the Abdomen Acta chirurg Scand 1926 hx 523

On the basis of his experience in recent years and especially in eight cases which he reviews, the author maintains that in acute abdominal conditions of a doubtful and apparently mild type the surgeon can profit greatly by investigating the suspension stability of the blood by the Fahrzus test, and in cases given expectant treatment he can profit himaking this test repeatedly to determine whether the values are rising or falling

While the Fahraus test is sometimes a better indication of the intensity of an infection than the leucocytosis, it cannot be regarded as an absolutely reliable indicator of the gravity of an inflammatory process in the abdomen particularly if the pentioneal irritation is of very recent development. In all of the authors cases of appendicitis and cholecystitis with a pathological increase in the Fahraus value—usually higher in the latter than the former hecause of the resorption of toxic products from a fairly large serous surface—the patient had been ill for at least forty eight hours

Neuhof, H., and Cohen I. Abdominal Puncture in the Diagnosis of Acute Intraperitoneal Disease. Ann. Surg., 1926. 1xxxiii. 454

Aldominal puncture for the diagnosis of acute intrapentioned disease is done with the use of a spinal puncture needle and a 20 c cm syring— Ethyl chloride locally or novocain is employed for anasthesia. The skin is opened with a scalpel at a point on a level with or below the umbilities and at either side of the midline. The needle is introduced perpendicularly and aspiration is attempted in several different directions. Only a few drops of

fluid may be obtained, but this is often sufficient for a diagnosis. The theoretical danger of penetrating a loop should not deter the surgeon from taking advantage of this procedure, but it is not safe in the subacute or chronic case in which a loop of bowel might be adherent A negative puncture has not been considered conclusive and if the symptoms justify surgical intervention such a finding has been disregarded. A positive puncture has prevented operation in a number of cases in which it would otherwise have been employed. A careful bacterial and cytological evanimation of the fluid obtained is as important as the finding of the fluid.

In a group of traumatic cases the presence of blood or fluid as indicated by puncture was proved by subsequent laparotomy. In a group of cases of pneumococcus and streptococcus peritonits the discovery of the organism on abdominal puncture prevented an unnecessary laparotomy. The finding of fluid the color of heef junce and containing poly nuclear leucocytes but no bacteria has decided the diagnosis of acute pancreatitis and the withholding of operation. William J. Pickett M.D.

Ghose D M A Case of Persistent Hiccough Treated Successfully by Injections of Novocaln into the Phrenic Nerve Indian M Gar 19 6

In the case of a patient who was in a state of extreme prostration from hiccoughing for almost four months the author infiltrated the phrenc nerve with from 2 to 4 cen of a ½ per cent novocan solution. The first injection made on only one side, caused transient pain in the shoulder and chest on that side. On the following day, 3 cc mo of the novo cain solution was injected on the opposite side After three injections there was some improvement and after six injections the hiccough ceased completely. The technique of knoh was used

JOHN A WOLFER M D

GYNECOLOGY

UTERUS

Ulesco Stroganowa K. Endotheliomata of the Uterus (Die Endotheliome des Uterus) Arch f Gynaek 1925 cxxiv 802

The morphological and histogenetic characteristics of endotheliomata of the uterus are due to the origin of these tumors from the endothelial and adventitual elements of the blood vessels. On the basis of studies of nine such tumors—three of the origins and six of the cervix—the author distinguishes endothelboma carcinomatides are commanders are consistent of the crossistic blood vessel development resulting in lympho or hemangio endotheliomata according to the vessel of origin.

As the literature does not report all epithelioma tous tumors they are perhaps more common than is generally supposed. To this group belong the tumors described by Fellaender as 'elefantiasis endometrii fibrosarcomatois gigantocellulare and also others described as guant cell polymorpho.

cellular and botryoid sarcomata

In all of the cases studied by the author an undoubted relationship was apparent between the tumor elements and the vessels from whose endo behium or adventitus the tumor developed. In some of the cases the endothehood character of the cells predominated so that the tumor had an epi thelial or caremoma like character while in other the admixture of other forms which were more characteristic of connective tissue suggested a sarroma

as the power of the endothelial and adventural cells to react to inflammators stimulation in various forms was shown by an astonishing polymorphism of the tumor cells. Epitheliumata of the cerur are characterized by the predominance of large epitheliotic cell forms which in addition to polymor phism are distinguished by very numerous mitotic figures. In these tumors there may be also small elements no larger than leucocytes or large clongized multinuclear cells. The tumor tissue formed from the elements and their transitional forms is tracted by a network of thin walled blood vessels and applicates.

In tumors of the corpus there are found beades cords of epubelood and often multinuclear cells similar to those of tumors of the cervix cords of spindle and oval cells. These give the neoplasm more of a sarcomatous character but because of their undoubted origin from endothelial and adventitual elements the tumors must be classed with the endotheliomate.

The frequently multinucleated and often very large cells found in endotheliomats also have their origin in endothelial and adventitual cells. Within the vessels they are formed either by mitotic or amitotic nuclear multiplication or by the syncytial confluence of endothelial cells a process in which leucocytes and the remains of cell nuclea and red blood cells are not infrequently surrounded. This content of blood corpuscle material explains the pink color of the giant cell like structures so formed a finding frequently mentioned by the author in his description of the different tumors. Sometimes the syncytial masses so formed show branches which retain the shape of the vessels.

The details of the descriptions cannot be given in an abstract without the illustrations

In conclusion the author cites a case in which death occurred from peritoritis immediately after radium treatment

Fresct (C)

Lynch F W The Treatment of Squamous Cell Epithelioma of the Cervix Surg Clin λ im 1026 M 333

In the author's opinion the ordinary panhys terectiony in the treatment of squamous cell carcinoma of the cervix is to be condemned. The radical dissection of Werthem's better to the cause of its technical difficulty and high primary more tality is not generally employed. Radium offers a much better chance of a five year cure than surgery or the causery.

In cases in which the carcinoma is limited to the cervit and the operative risk seems good a pre liminary irradiation of about 3 000 mc hrs should be given and followed from two to four weeks later by a radical excision. All other cases should be treated with radium alone. Some surgeons use radium alone in all cases but reports collected by the author indicate that when the condition is operable the notidence of five year cure was about 50 per cent in cases treated surgically as compared with 36 per cent in those treated with radium alone.

I to you so Bushion. M.D.

Rud H A Histological Investigation of a Case of Cancer of the Cervix of the Uterus Cured Locally by Radium and X Ray Treatment Local obst y gynec Scand 1925 1V 66

The author reports the clinical course and autopsy findings in the case of a patient who was clinically cured of cancer of the cervix by radium and X ray treatment and died of an intercurrent disea e

Autops) showed macroscopic healing of the process in the uterus vagina and left parametrium but remains of the tumor were found in the right parametrium On microscopic examination of the organs, cancer cells could not be demonstrated in the uterus, vagina, rectum, bladder left parametrium or left ovary

Remains of cancer tissue showing degenerative changes were still present in the right parametrium

and right ovary

The ussue treated by irridiation showed also an increase in the connective tissue the occurrence of hyaline areas and fibrinoid necrosis in the muscles and thickening and obliteration of vessels the valls of which showed hyaline and fibrin like tissue. The mucous membrane of the uterus and vagina in the neighborhood of the cancer site was strophed.

Ward, G G and Farrar, L K P The Radium Treatment of Carcinoma Uterl Am J Obst & Gynec 19 6 vi 430

The authors state that for the purposes of comparative study, a standardized simple classification of carcinoma of the uterus according to the extent of the disease and the same rules in estimating end results and percentages should be adopted by all clinics

A monthly follow up conducted by the surgeon in charge of the patient is of inestimable value for successful ridium treatment. The details of technique are of importance. Over radiation is espicially to be avoided, and subsequent treatment should be based upon the reaction to the test dose of radium. In the authors' experience, repeated irradiations (three or more) have been of distinct value in certain advanced cases.

In all classes of carcinoma of the cervix radium is preferable to surgery. As life can be saved by radium in at least 50 per cent of the early cases of carcinoms of the cervix the education of the laity and general practitioners to seek an early diagnosis imperative. Carcinoma of the fundus is best treated by surgery, but in many cases resort must be had to radium and roentgen ray therapy because the operative risk is high.

For satisfactory results it is unnecessary to use large amounts of radium. The value of roentgen ray therapy in carcinoma of the uterus is still undetermined. Every case should be treated according to its particular requirements.

E L CORNELL M D

Voltz F Carcinoma of the Cervix Treated Exclusively by Irridiation (Die ausschliesische Strahlenbehandlung des Collum Carcinoms) Klin Weinschr 19 5 18 1336

On the basis of material from the Munich Gyne cological Clinic during the years 1912 to 1919 it is shown that irradiation of carcinoma of the uterus is as effective as operative treatment and sometimes even more effective. To the cases in which a five year cure find been obtuined up to the year 1918 which have been reported previously are ided the cases with a five year cure which were treated during the years 1918 and 1919.

There were 312 cases of carennoma of the cervix Of these 271 were treated and forty two were unsuitable for treatment Since 7918, radium treatment has been combined with roenigen treatment. In the total number of cases the incidence of cure was 12.4 per cent, while in those remaining after the subtraction of the untreated cases it was 14.3 per cent. The results in the four groups were the following.

Group 1, thut; seven operable cases, a cure in sixteen (432 per cent) Group 2, seventy four borderline cases, a cure in fifteen (*0 - per cent) Group 3 100 inoperable cases a cure in eight (75 per cent) and Group 4 innet; six unsuitable cases no cures in the fift; four which were treated

In 755 cases of carcinoma of the cervix traded in 13 2 per cent and a five year cure in 43 6 per cent of those which were operable. In the total number of cases of carcinoma of the cervix treated by irradiation which have been reported in the literature—1 325—Voltz estimates that an absolute cure was obtained in 16 9 per cent of those which were operable. In contrast to this, he estimates for 2,185 cases of carcinoma of the cervix an absolute operative cure of 26 per cent and a cure in a total of 30 per cent of the cervix on a bisolute operative cure of 26 per cent and a cure in a total of 30 per cent of the cases operated upon

Accordingly the figure for absolute cure by irradiation is lower but this is explained by the fact that the total material was poorer since in the older operative cases the average operability was 64 per cent whereas in the irradiated cases it was only 19 3 per cent. The poorer quality of the material is explained by the fact that many cases which previously were regarded as beyond treatment were

sent to the Clinic for irradiation

Worthy of note is the five year cure obtained in ro 1 per cent of 1 778 cases of inoperable carcinoma of the cervix collected by Voltz from the literature which were treated by irradiation Attention is called also to the so called optimal cure figure that is the result obtained when the patient submitted to a complete course of treatment In Group 1 this was 74 8 per cent in Group 2 41 ° per cent, and in Group 3 73 1 per cent

The author believes that by further development

The author believes that by further development in the technique and methods of irridiation the results may be further improved particularly by irradiation of the hypophysis, exact dosage, and the reduction of irradiation suchness by the use of irradiation cabinets

MRITOS (C)

ADNEXAL AND PERIUTERINE CONDITIONS

Pettinari V The Ovarian Graft and Its Application to Treatment in Clinical Cases (La preffeourienne et ses applications à la therapie humaine) Ginte et obst 1026 and 1027

Experiments performed by the author on 33animals of various species showed that ovarian tissue trunsplanted in animals of the same species can be made to live elaborate the normal internal secretion and assume the germinal function. The likelihood of a successful take increases with descent

in the biological scale

The normal histological condition of some of the author's grafts is shown in illustrations Follicle formation and the presence of corpora lutea were The formation of corpora lutea was seen chiefly in the autoplastic grafts whereas in hetero plastic grafts follicle atresia was the rule. In the homoplastic type the tenden v was in the balance

The ovarian secretion which exerts the chief in fluen e on female morphology and physiology cannot be replaced by other internal secretions but can be

resupplied by grafted tissue

The relation of the ovarian secretion to the various mammary uterine and other cycles has not yet been established but it is known that ovarian se cretion is necessary for the maintenance of these cycles Nervous disorders influence sexual function hy modifying the endocrine action of the ovaries

A successful graft will prevent the appearance of the usual effects of castration and will carry the organism to its complete sexual development. In old animals it causes a profound psychic and somatic

In the transplantation of ovarian tissue in clinical cases the receptor is too often in poor general condition the area in which the graft is placed is dis eased or unsuitable or the grafted tissue is unsatis factors

The following conditions may be favorably af fected by an ovarian graft (1) infantilism of the genital organs (2) the pathological menopause due to castration (3) dysovansm and ovarian insuffi ciency (4) ovarian steribty (c) plunglandular endo

crine syndromes and (6) certain mental affections In the human female, autoplastic transplants give the best results but homoplastic grafts have occa ionally proved satisfactory Grafts are used to

stimulate impotent ovarian tissue as well as to re place removed or destroyed tissue

Ovarian grafts have great therapeutic possibil ities and with increased knowledge and improve ment in technique their use will become more gen eral in the treatment of conditions not amenable to other ovarian therapy. At present they should be used with discretion

GOODRICH C SCHAUFFLER M D

Bolling R W An Ovarian Cyst Free in the Peri toneal Cavity of Three Months Old Infant 1nn Surg 1926 levent 546

The author reports the case of an infant 3 months old who had vomited and lost weight since birth In the right lower quadrant of the abdomen there was an elastic mass about the size of a golf half. At operation the mass was easily delivered and rolled out of the wound as it had no attachment Exam ination revealed a normal uterus with a normal ovary and tube in the left side but no ovary or tube on the right side. The mass was a multilocular ovarian cyst

which had become separated from its attachment as the result of torsion. The patient recovered I EDWARD BISHAON M D

Shaw W Krukenberg Tumors of the Ovaries Proc Roy Soc Med Lond 1926 tix Sect Obst & Gyaxe 49

Krukenberg tumors of the ovary were first de scribed by Krukenberg in 1806. They are bilateral tumors which may occur at any age Their growth is slow and accompanied by ascites They retain

the normal shape of the ovaries and have a smooth surface Histologically the stroma consists of fibrilla in the form of spindles with oval nuclei densely packed together Also predominating are round or oval

cells with hright translucent homogeneous proto plasm and nuclei pushed to one pole and flattened out against the cell membrane giving a signet ring Krukenberg believed the tumors to appearance be abrosarcomatous in type Later other investi gators found them associated with carcinoma of the stomach The author reports five cases In view of the fact that in the vast majority of

the reported cases careinoma was discovered in the stomach it is probable that the ovarian tumors are secondary carcinomata rather than primary fibro sarcomata I EDWARD BISHLOW M D

Princeteau and Magnan Simultaneous Rupture of Both Fallopian Tubes (Rupture bilaterale simultanée des deux trompes utérines) Bull Soc d obst et de gynée de Par 1926 Ev 55

The patient whose case is reported was a woman 22 years of age who was admitted to the hospital on November 7 1025 complaining of pain in the lower part of the abdomen and a bloody vaginal dis charge. She had had one pregnancy sixteen months previously Her last regular menstrual period began July 30 1025 In the evening of that day she had an attack of sharp pain in the lower part of the ahdo men vomiting and syncope which persisted until the following day Her condition then improved and she was able to get out of bed but on the third day the attack recurred A physician called two weeks after the onset advised immediate operation

On the patient's admission to the hospital her temperature was 37 o degrees C and her pulse 100 Examination revealed a chocolate colored vaginal discharge tenderness in the lower abdomen and a mass in each ibac fossa. The cervit was soft and patulous A diagnosis of ectopic pregnancy on the left side with destroflexion of the uterus was made

Operation revealed on the right side of the pelvis a blush mass the size of two fists and on the left side a swollen fallopian tube with a perforation about 2 cm in diameter from which blood was escaping The mass on the right side was apparently a hamatocele. It could not be removed completely as it seemed to be attached to the rectum. A left salpingectomy and a subtotal hysterectomy were performed SALVATORE DI PALMA MI D

EXTERNAL GENITALIA

Watson, B P A Technique for the Operative Treatment of Rectocele Edinburgh II J 1926 n.s xxxiii Edinburgh Obst Soc 61

The essential feature of Watson's operation for rectorcle is the isolation and repair of the special fasciomuscular sheet which supports the rectum and in all cases of rectorcle is deficient. This rectal fascia is a broad strong sheet of musculofascial tissue in close relation to and supporting the an tenior rectal wall and lying deep to the levator an muscle. It is in intimate relation to the posterior vaginal wall in its middle third and becomes con tinuous at the sides of the cervix with the fascial layer which is the main support of the bladder Rectorcle is the result of injury to this fascia.

In the operation described an incision is made through the mucocutaneous juncture round the poste rior part of the vulvar orifice. In the elevation of the flap from the posterior vaginal wall blunt scissors are used Euch side is opened and held up by for ceps so that the median scar can be seen and can be dissected away without injury to the rectum. Two bands are found attached to the flap which do not wipe away easily and represent the torn rectal fascia Below this and on each side is the mass of levator muscles and fascia which, in the usual opera tion are joined together by interrupted sutures as a rule under considerable tension. In the author's operation a deep bite is taken into the fascial sheath above the upper margin of the rectocele on each side and when this suture is tied the fascia is over lapped above the rectum A continuous suture is usually employed

In addition to curing the rectocele, the fascial union restores the support of the pelvic floor

HARRY W INK, MD

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

kupfer M Ovarian Pregnancy Following Operation for a Tubal Pregnancy on the Same Side (Ovanalgravitaet nach gleichseutiger openerter Elleiterschwangerschaft) Zentralbi f Gynack 1925 Vib. 2241

Kupfer reports the case of a 36 year old woman who had been operated upon for tubal pregnancy on the left side and upon whom he operated for a suspected extra uterne pregnancy. At the second operation a large quantity of dark blood was found in the abdominal cavity. The left ovary had been transformed into a tumor the size of an egg. The stump of the left tube which was r cm long was not connected with the ovary. The right adners were normal. Extraption of the left ovary was followed by uneventful recovery.

The specimen showed evidence of a fetal sac No histological examination was made. The author assumes that there was an external migration of the spermatozoa but admits that patency of the stump of the left tube could not be ruled out definitely

VON WEINSTERL (G)

Von Bodé R and Liebmann S investigations Regarding the Calcium Ion Concentration of the Blood in Puerperal Eclampsia (Untersuchungen ucher die Calciumionenhoozentration des Blutes bei puerperaler Ellampsie) Arch f exper Path in Pharmakh 2015 CB 178

The authors examined the blood scrum of women with eclampsia for ionized calcium according to Trendelenburg's method of perfusing the frog's heart. These studies followed those of Lamers Russmann and Kehrer who found the calcium con tent of the blood lowered in eclampsia and attributed the convulsions to a calcium hypo jona.

In the authors investigations sera which had been kept on nee for trently four hours were tested on the isolated frog s heart. If a reduction of the contractions occurred further tests were made to determine whether the addition of calcium ions would prevent such a reduction. The serium first tested was obtained from thyrodectomized dogs in which tetany had been produced by the removal of the parathyrods.

It was found that the normal contractions of the fings heart perfused first with Ringer s solution were decreased when the serum of the parathy rodectomized dogs was added whereas when cal cum nons were added to the serum (o r calcium chloride solution with o if mgm calcium chloride to i c cm of the tetany serum) the contractions re turned to normal

In experiments with the serum of normal pregnant women and women who had been recently delisted the contractions of the heart muscle remained normal and no decrease in the calcium content could be demonstrated. Neither was a cal caush hypo iona found in the serum of nue celamptic women whose serum had as little effect on the frog heart as that of normal pregnant and purepreal women. Therefore a decrease in the free calcium ions in the blood which might be responsible for the convulsious could not be demonstrated in puer peral eclamps:

Lindquist S Retention for Nearly Twelve Months of a Mature Fetus in a Uterus Which Is the Seat of a New Pregnancy (Third Month) Acta abst of synce Scand 1925 by 187

The patient whose case is reported was a para with a normal history who during her fifth pregnancy felt letal movements after the fifth month hut cased to feel them during the ninth month When she was first seen hy the author she had not felt fetal movements for eight days. She refused intervention

When she returned two months later the fundus seemed smaller and the upper right portion of the uterus seemed to be divided from the loner portion by a sulcus. She again left the service again advice and has not seen again until twenty months from the onset of the pregnancy. On her return she stated that she had had one normal mensitual period six months previously and another four months previously and another four months previously.

Laparotomy revealed a uterus with two parts having no demonstrable connection. The upper and larger part contained a maeerated and apparently full term fetus and the lower and smaller portion a fetus about 14 cm. long.

GOODRICH C SCHAUFFLER M D

Commandeur Eparvler and Michon Cancer of the Cerux and Pregnancy Cæsarean Sec tion Porro a Amputation Radium Therapy (Cancer du col uterin et grossesse césareane am putation de Porro curreltérapie) Bull Soc d'obst et de gynée de Par 1956 xv 59

The patient whose case is reported was a 40-year old woman who entered the obstetrical chinic at Lyons in the seventh month of pregnancy with a cancer of the cervit. Examination revealed considerable hypertrophy of the cervit and the exploring fingers became blood tinged. There was a slight moduration in the right vagrand culd essen

Three weeks after the patient's admission to the hospital she began to lose blood. During the night of August ar she had a vaginal harmorrhage. Fol lowing a classical cæsarean section in which a living female infant was delivered. Porro's amputation

was done immediately and the abdominal wall closed. The postoperative course was without incident

Tifteen days after the operation the cervix was dilated and two tubes of brounde of radium of 50 mgm each were inserted from the andominal opening. In the pericervical vaginal site, three tubes of 25 mgm were placed in a circular drain around the cervix.

Three weeks after the application of the radium, examination showed complete disappearance of the cervical tumor and only slight induration in the antenior cul de sac

No mention is made of a microscopic evamination of the tumor Salvatore in Palma M D

Michel Fruhinsholz and Mathleu Cancer of the Cervix and Pregnancy Hysterectoms in the Fourth Month End Result (Cancer du col et grossesse hystérectomie au 4cmois 165ultat élogné) Bull Sod dobt etde grate de Par 1926, 32 106

The case reported by the authors was that of a woman 40 years old who bad had four children, all of whom died shortly after birth. On July 25, 1921 when the patient was in the fourth month of pregnancy, she entered the bospital on account of marked leucorrheca. A diagnosis of malignant new growth of the cervit was mide and a Wertlenen hysterectomy performed. The parametrium was not in vaded

Convalescence from this operation was normal, and the patient left the bospital a month later in excellent condition. On December 28, 1921 she returned on account of a bloody vaginal discharge Examination then revealed an indurated mass at the end of the vagina. Curettage of this mass was followed by the application of radium.

On April 10 10/55 the patient again returned to the bospital with a bloody vaginal discharge Examination revealed a small crater like industion at the end of the vaginal stump A second application of radium was river.

In December, 1923, four years and four months after the hysterectomy, the patient is in excellent condition. The vagina is smooth and shows no ulcerations. A small nodule the size of a pea in the posterior part of the vagina the authors believe is a scar.

No mention is made of a microscopic examination of the neoplasm Salvatore pi Palma, M D

LABOR AND ITS COMPLICATIONS

Esch P The Occurrence of Brain Pressure and Its Effect upon the Fetal Heart Sounds During Labor (Ueber das Zustandekommen und den Emfluss des Hindrucks auf das Verhalten der kindlichen Herztoene wechrend der Geburt) Mondischer f Geburtsh u Gynack 1925 kux 308

There are two types of hrain pressure One is the acute type which is due mainly to mechanical factors such as pressure or a blow upon the brain and may occur during operative delivery or the sudden descent of the infant through a narrow pelvis. The other is a gradually developing type which is due to a disturbance in the circulation of the blood such as venous stasis or obstruction of the arterial supply which causes cellular injury.

The acceleration of the beart sounds resulting from cerebral pressure the author attributes chiefly to vagus irritation rather than to a carbon dioxide overload such as occurs in general asphy ia. Where as in acute cerebral pressure a rapid recovery of the heart sounds is to be expected the author helico esthat when cerebral pressure is manifest an attempt should be made to terminate the labor just as in cases of slowing of the heart due to an overload of carbon dioxide.

However if the prerequisites for a forceps delivery have not heen met, there is danger that a forced delivery may cause an increase in the cerebral pressure which will prove serious for the child Consequently the danger of waiting until the industions for a forceps operation become apparent seems to be less than that of forcibly ending the labor at once

Polak J O The Technique of Transperitoneal Cresarean Section Surg, Ginec & Obst., 19 6, vin 551

To decrease the danger of casarean section, pelvic disproportion or fetal malposition must be recognized either before or immediately at the beginning of labor. In the borderline case with but slight disproportion and only slight deflevion of the vertex, good obstetrical judgment is particularly necessary.

Since over 80 per cent of labors in cases of border line contraction terminate spontaneously or can be terminated with the aid of low forceps, it is well in these cases to allow the woman to bave a moderate test of labor. This is best given in bed, the patient's strength heing conserved by rest, the free use of morphine and scopolamine, forced feeding, and the forced ingestion of fluids. During this preliminary test the character of the contractions, the contour of the uterus, the pulse, the temperature the progress of descent, and the amount of dilatation should be carefully checked

If there is no evidence of advance or no apparent increase in the dilatation of the cervix, a careful vaginal examination with the bladder empty should be done and an attempt made to crowd the perfectly fleved head into the brim. If there is much over riding or if the consistency of the head and sutures show that the bead cannot he crowded in, casarean section is indicated.

Prior to the induction of anaesthesia in such a case the patient should he given an intravenous in jection of 250 c cm of a 10 per cent glucose solution. In the pre-operative preparation of the genital organs, 1 oz of a 4 per cent solution of mercuro chrome should be slowly injected into the vagina while the hips are elevated on a sterile douche pain. This should be done at least thirty minutes hefore

of life and growing slowly A large percentage en large with breaking down of the capsule and general invasion of the gland In 25 per cent of Woods forty nine eases the tumor became malignant and in 45 per cent a recurrence followed the removal of the malignant growth Complete removal while the tumor is still encapsulated will result in a cure in practically every case (Sistrunk)

Under local anasthesia Grove makes an incision along the horizontal branches of the facial nerve isolating the nerve branches and continually keep ing them under view during the diss ction of the

tumor He reports three eases

In the first case a tumor the size of a hen's egg had been present for twenty years. It was firmly fixed in front of the right ear and in the past six months had increased in size. In the second case there was a tumor the size of an almond of six months duration and in the third case a small tumor of one year a duration which had grown rapid

ly during the past six months These growths were all enucleated under local anasthesia by incisions along the branches of the eventh nerve the nerve being carefully isolated and kept in view during the dissection. No facial paralysis resulted from the procedure

HARRY C SALTESTED M D

Schild E II An Unlearnable Prism Test for Suspected Malingering Am J Ophth 1926 38 1X 74T

The prism used in the test desenhed hy Schild is a small piece of rectangular glass measuring about I by a in one half of which is a rather thick plane and near the center tapers off to a prism of 5 degrees for the other half It is very important that the base line of the prism which runs across the middle of the class should he as sharp as possible to make an abrupt change to the prism side

A suitable test object is provided Ordinanly any small bright object against a plain background will do except an electric light hulb or other bright

light A small white visiting card is best With this glas one may product the effect of either a plano a double prism or a single 5 degree prism depending upon the way it is held. If it is held so that the prism end is up and the dividing line is just above the pupillary border the view will be through the plane part This is Position 1 By lowering it so that the dividing line runs midway across the pupil the effect of a double pn m is oh tained This is Position 2 Lowering it again so that the dividing line is below the edge of the number gives the effect of a single 5 degree prism with the single image displaced upward. This is Position 3. The shifting from Po ition 2 to Position 3 is the critical stage of the test and must be done at the moment when the subject has both eyes open and his attention distracted so that he will not notice the change

The examination deals entirely with the good eye If the patient shows signs of memorizing his replies the position of the glass must be secretly reversed L L McCoy M D

Irons E F and Brown E V I Recurrence of Irltis as Influenced by the Removal of Infec tions Summary of Flity Cases J tm M Ass 1926 IXXXVII 1167

Zentmayer W The Prostate as a Remote Focus of Infection in Ocular Inflammations J Am

M Ass 1926 IXXVII 1172
Mittle L Ocular Discuse Occurring in the Course of Non Dysenteric Amorbinsis J Am W tar 1026 IXXXVII 1176

IRONS and BROWN report the late results in fifty cases of aritis from three to twelve years after treat ment In forty three there had been no recurrence

In seventeen of the cases the initis was attributed to tonsillar infection and in thirteen of these the tonsils were removed. In ten cases infected teeth were believed responsible and were extracted. In two cases anti syphilis Ireatment was given and in two others tuberculin was used. In the remaining cases the underlying condition was a cenito urinary infection or a combination of various conditions with tonsil and dental infection or was not determined

Of the seven patients in whom the iritis recurred one refused to allow the removal of hadly infected tonsils. In the case of another treatment for lues was given and an infected tooth extracted but in fected tonsils were not removed. Two of the pa tients with recurrences had gonorrhoral prostatitis and arthritis A fifth patient had a generalized infection associated with sinusitis and the sixth an apparently healed pulmonary tuberculosis and a severe epi scleritis Both of these developed keratitis seventh reacted to tuberculin but refused to remain under observation for a sufficient length of time fo adequate study

ZENTMANER reports in detail four cases of ocular inflammation in which the prostate seemed to be

the source of the infection

In the first case there had been repeated attacks of gonorrheeal arthritis and tritts. The sight of the right eye had been lost as the result of secondary glaucoma. In the left eye in spite of an iridectomy during an attack of acute plaucoma vision had de creased to 1/10 Prostatic massage and the use of stock and autogenous vaccines seemed to make the eve condition worse

The second case was that of a man 50 years old who had prostatitis On two occasions in this case prostatic massage was followed by an attack of

acute inti-

The third case was that of a man 26 years old who gave a history of gonorrha il urethritis and ar thritis nine years before the iritis. I our years later he had a very severe recurrence of iridocyclitis and a diagnosis of prostatitis was made

The fourth case was one of central exudative retinochoroiditis occurring in a man who showed no

other lesion except prostatitis

Zentmayer cites also three cases of vesicular keratitis in men with a history of gonorrhea. He draws the following conclusions

draws the following conclusions

The prostate may be the source of infection in

certain ocular inflammations
2 The prostatic infection is usually non gono coccal

3 The metastasis as in other focal infections, may occur in any of the ocular tissues susceptible to inflammatory reaction, but the usea and cornea are

probably involved most often

4 The fact that an inflammation persists after the removal of a suspected focus does not prove that this focus was not the primary source of the infection the inflammation may have so reduced the resistance of the tissues as to render them unable to withstand the action of much less virulent organ issues or toxins from some other part of the body.

5 Only the subsidence of a metastatic inflam mation after the removal of a possible source of infection proves that this source was the exciter of

the condition

MILLS reports eight cases of ocular inflammation associated with intestinal amorbiasis in which the eve condition was relieved by the treatment of the amorbiasis He believes that many more cases would be found if laboratory workers were familiar The conditions in the with intestinal protozoa cases reported were intis associated with mi graine like headache and gastro intestinal symp toms, iridocyclitis persisting for eighteen months and associated with arthritis and a bistory of gonorrhoal infection bilateral iritis persisting for ten months bilateral iritis persisting for five years severe conjunctivitis and episcleritis of eleven weeks' duration recurring attacks of sclerosing keratitis for six years, iritis persisting for six years and caus ing blindness from secondary glaucoma choroidal atrophy of one eye and recurrent iritis in the other eve

Also reported are three cases of retinal barmor rhage, one case of incipient cataract two cases of glaucoma simplex, and three cases of retinal detach ment which were favorably influenced by the treat

ment of associated amorbiasis

Mills agrees with Malling that many cases of so called primary glaucoma are in fact secondary as is often shown by the findings made with the slit lamp He has noticed that synechæ are frequently not marginal but arise from the surface of the iris or the citary body

A large percentage of chronic ocular conditions which resist local treatment are associated with in testinal infection by protozoo or flagellates causing colitis. In most of such ocular conditions treatment for the amobians has resulted in relief arrest or cure of the eye condition. Emetin may be of value also in irrits due to other causes. Any chronic or recurrent or intractable ocular disease in which the elimination of focal infection and correction of the duet is not of benefit should be treated as a parasitic mitestinal infection.

SMULLA DURK MD.

EAR

Goldstein M A The Relation of Tactile Impression and Hearing Perception Laryngoscope, 1926 XXXVI 7 9

Goldstein traces the development of the sensory organs in animals from the lower to the higher types. The embryological derivation of the auditory organ is considered. The purpose of the discussion is to outline embryologically and phylogenetically the relationship and gradual development of the general touch sense to its most complicated mechanism of special sensory organs and especially to the auditory organ in the mammalia and in the human species.

The lower the anatomical, physiological, and economic zoological rank of the animal the simpler and more rudimentary are its sensory or ans

The statement has not yet been challenged that hight, heat, sound, and electricity are modifications of the same wave of motion varying in intensity, quality, and direction. In functional bearing tests of both the normal and the deaf subject it has been very difficult to determine where an auditory impression cases and where a tactile impression begins, or to what degree one sensory impression may be translated into terms of the other.

Goldstein cites the case of a congenitally deaf girl who became so highly sensitized that she was able, blindfolded, to receive and repeat entire sen tences heard through an ordinary megaphone, the distal end of which was spanned by a tense dia pbragm of Whatman paper with which the tips of her fingers were in contact.

In conclusion the author states that there is much promise in the use of apparatus embodying radio and telephone principles for the amplification of sound

A R HOLLENDER, M D

Tait J Ablation Experiments on the Labyrlnth of Frogs Laryngoscope 1926 xxxv1 713

In his experimental work on the frog the author observed that when one or both saccular otoliths are removed or when the nerves to the saccular maculae are cut, the result so far as equilibrium is concerned is very clear and definite. The animal sits, crawls, jumps swims absolutely normally These negative results in normal hebavior confirm previous work on fish hy Parker and Maxwell and on frogs by Laudenhach which showed that the saccular macula at least of these lower forms of animal life, is not in any way concerned with equilibrium

The utricular macula is wholly an organ of static equilibrium. When the frog assumes stationary postures on an inclined plane the head tends to be kept horizontal while the center of gravity of the body is plumhed within the hase of support formed by the four limbs. These stationary postures which vary with the degree of inclination of the plane on which the frog rests, constitute reactions of static equilibrium. In taking up the appropriate pose the

animal depends on nervous messages derived from four possible sources (1) pressure impulses due to cortact with the ground (2) impul es from muscles and joints (3) impulses from the eres and (4) impulses from the utricular macules

So far as the body and timbs of the frog tre concerned the saccular metal has nothing to do with equilibrium. The utricular matula is the organ of static equilibrium and is concerned in the adoption and maintenance of appropriate postures in response

to gravity
The semicircular canals are for kinetic equilibrium.
The tatic reactions are manifested only when the

animal stands still

Upon semicreular function depend appropriate responses to counteract sudden titings and pirkings. The carab are called into action by something sud den their effect is momentary and evanescent. The plumb line mechanism responds to a steady held of force its action is suggish, but its effect is sustained. This fact is somewhat reminiscent of the difference between an induced and a constant electric current.

The differential diagnosis of lesions of the canals depends upon a knowledge of their individual func-

tion

Barány s tests are reviewed. Bárany s method proves that stimulation of the canals is due to move ment of the endolvmph within them, but is complicated and not wholly satisfactory.

The horzont d canals are brought into action in agid turning movements about a vertical axis Experiments have proved that when the normal frog is quickly rotated toward the right it i the horizontal canal on that side that is stimulated. If the le ion is on the left side the frog wall fail to respond when turned toward the left

The vertical canals are brought into operation in rapid titing movements about horizontal ares. From experiments with frogs the conclusion is drawn that each vertical canal is especially associated with the lumb of that quarter of the hody toward which it points. It was noted also that whereas a vertical canal is specially associated with one particular lumb strumbation of a horizontal canal leads to movements of at least two and usual ly of all four lumbs.

y or an iour unites

Deaf mutes on the Bárany chair have no trouble
in detecting even a low rate of angular acceleration
and in indicating its direction. Occasionally how
ever one finds a patient who shows obsuous dis
statement. The solid is blog and has appear
before. The solid is blog and has appear
before the solid is blog and has a result
indeed to make the solid is a solid in the same
ompletely decanalized frog. Other deaf mutes who
were examined reacted on the tilt table in the same
way as normal persons. When a patient was found
defective by the very simple Bárany test he showed
diagability also on the tilt table.

A R HOLLENDER M D

Bichl C Perforation of the Fenestra Rotunda for Therapeutic Purposes J Laryng 1 & Olol 19 6 2h 657

Leidler R The Indications for Opening the Labyrinth J Laryngol & Otol 1926 xh 641

In di cussing the function of the fenestra rotunda finestic calls attention to the fact that the tympanic membrane and the obturator of the fenestra ovalis the plate of the stapes, have a muscular movement whereas the movement of the membrane of the finestra depends on changes within the haly ninh changes of pressure. Hence the fenestra rotunda a influenced by the quantity of fluid in the laby mith and the reactions which these fluids undergo. It is certain that an increase of pressure in the laby mith certain that an increase of pressure in the laby mith can be dirumished by an operation on the fenestra

When the fenestra rotunda is perforated the in crease of fluid, of pressure altogether will have its effect on the vestibular side and will be manifested there only if the membrane of the fenestra cannot

produce the effect

The function of the membrane of the fenestra rotunda is twofold—adjustment of the mechanical effect which requires a certain amount of fierability and adjustment of the acoustic effect which requires a certain rigidity with regard to these extremes.

In conjunction with the vestibular apparatus the fenestra rotunda has a mechanical action but in conjunction with the cochlear apparatus its action is an acoustic tension which will be at its stronger the membranes is taut. In addition to these functions the fenestra rotunda has by reason of its fibrous membranous structure the capacity to diffuse and in this way to influence the process within the labyreinth

Disturbances in the internal car caused by over

pressure can be removed or diminished only by per

lorating the fenestra rotunda LEIDLER agrees that the question as to when we ought to operate on the labi rinth is still far from satisfactorily answered, but states that in his opinion operation is indicated when the patient is suffering from chronic or acute otitis media with symptoms of diffuse acute inflammation of the labyrinth that is to say deafness mystagmus of the third degree on the health; side and lack of response to the turn ing calone and fistula tests and at the same time there are symptoms of intracramil complications (a temperature over 38 decrees C headache and pos sibly positive signs in the cerebrospinal fluid) is indicated also in cases of acute or chronic ofitis media in which the labs rinth is completely deranged functionally and an antrotomy or radical operation is called for

When facial paralysis occurs in the course of the disease the cavities of the middle car must be total by opened (radied) operation). When disease of the labring the apsule is diagnosed (cholesteatoms, granulations in the windows fistula) opening of the labring is to be recommended even if the latter

is still functioning

When, in spite of removal by operation of middle ear suppuration and correspondingly long observation, a circumscribed disease of the labyrinth shows a tendency to increase (gradual loss of function, possibly accompanied by giddiness and headache, poor healing of the cavity) the labyrinth should be opened before the functions are wholly lost

In a case of acute elimination of the eighth nerve (when it is probably impossible to decide whether the case corresponds to a serous or to a suppurating inflammation in the laby rinth), and it is necessary to operate for other reasons, the complete radical operation should be done on the middle ear even in acute cases in order that the lateral laby rinthine wall may be inspected

In cases of abscess of the brain (especially with abscess of the cerehellum, and possibly with deep extradural abscess of the posterior fossa) the sacrifice of even an intact labyrinth may be necessary for exposure of the abscess A R HOLLEYDER MD

Lillie H I and Stark W B The Insulous Symptomiess Destructive Effect of Cholestea toma Surg Clin N Am, 1926 vi 1359

Two interesting cases illustrating the insidious, symptomless, destructive effect of cholesteatoma tous masses in the temporal bone have heen observed in the Mayo Clinic

The first case was that of a woman 26 years of age who complained of severe pain in the left ear ver tigo, and somiting of three days duration. Fifteen years previously she had had an attach of acute purulent otitis media on the left side. The tympanic membrane was thickened and bulging. The hearing was diminished but the responses of the semicircular canals to stimulation were prompt. The roentgeno gram showed a selection mastoid.

Incision of the tympanic membrane was followed by numediate and complete relief of the pain and after the lapse of a few hours, by cessation of the vertigo. There was a foul smelling discharge Diffuse labytimthits developed, but the acute symptoms subsided in a few days. At operation, it was found that the tympanic membrane and middle ear were filled with a cheesy cholesteatomatous mass. When this was removed, fistule were discovered leading to the superior and horizontal semicicular canals. Laby inthectomy was performed. Uneventful recovery resulted.

The interesting features of this case were the history of an old otitis media, all hut forgotten by the patient, the intact tympanic membrane the foul smelling discharge following myringotomy and the lahy intibine symptoms and findings

The second case was that of a man aged 55 years. The only complaint was itching in the right ear. There w.s. a small crust attached to the postero inferior wall of the right external auditory can just external to the isthmus. When this was removed a fistula was found leading into the mastoid. On heing questioned, the patient recalled having had in child hood, an actue to titis media on the same side. The

tympanic membrane the hearing and the responses of the semicircular canals to stimulation were normal A roentgenogram revealed an extensive destructive lesion of the pars squamos.

At operation, an unusually destructive process was found The cholesteatomatous mass involved the squamous portion of the temporal bone to its limits and the petrous portion to the aper. It had dissected the capsule of the laby inith distinctly outhing it. The dura near the aper of the petrous portion was very thin and the removal of the mass injured the dura, allowing the escape of cerebro spinal fluid, which continued to oze for seventy two hours. Convalescence was protracted, but no un toward symptoms developed.

These cases show how insidious and extensive may he the effects of cholesteatoma in the temporal bone in the absence of symptoms. In both cases there was a history of disease of the middle ear and the tympanic membrane was intact. It is highly probable that there had been a defect in the tympanic membrane but that this had healed, leaving in the middle ear a hud of epithelium.

NOSE AND SINUSES

Wiflcox Sir W Nasal Sinusitis as a Cause of Toxemia Proc Roy Soc Med Lond 19 6 vix, Sect Laryngol 40

Infection of the nasal sinuses is just as important in the causation of toxemia as is dental sepsis. The diagnosis of acute nasal sinusitis is easily made Chromic sinusitis is diagnosed on the basis of the history and the findings of expert examination of the nose including roentgenographic examination, transitumination, and rhinoscopic examination with puncture. From the author's experience with these cases he draws the following conclusions

r Nasal sinusitis is relatively common and should always be searched for in cases of toxemia in which the cause is not apparent

2 In cases of systemic disease which may be due to towmic conditions, a careful search should be made for sinusitis

3 Masal sinusits is an important cause of towemia. It may be very far reaching in its effects and may cause any of the many diverse pathological conditions which are now recognized as heing some times oue "o dental sepsis

4 Nasal sinusitis particularly in the chronic form often requires operative treatment. Ade quate treatment is imperative since the condition is a focus of infection which, if left untreated, will speeduly give rise to systemic disease affecting other parts of the hody.

5 In the treatment of nasal smustts it should always be remembered that the case is a case of toxemia usually streptococcal in which the focus of infection is in the sinuses Every case is there fore a problem in immunity

In the discussion of this report it was brought out that only chronic cases should be operated upon, that asthma is often caused by masil anusaits and that masal mustus promotes a chrome touse state by causing bronchiectasis. There was some dis agreement as to the relative value of the \int ray and transiliumnation in the diagnosis but it was generally agreed that neither is absolutely decisive. Mission R Waltz N D

Meliahon B J The Pathology of Spheno Ethmoidal Sinusitis Arch Otolaryngol 1926 1v 310

The author reviews seventy cases of spheno ethnoidal anisati from the pathologist a point of view in order to determine whether or not there is any relation between the symptoms and the micro-scopic changes and between the micro-scopic changes and between the micro-scopic changes and the end results of operation on these sainess. In every case the turbinate indicell walls removed at operation were fixed embedded sectioned stained and studied From these studies the following conclusions are drawn.

I In chronic hyperplastic spheno ethmoidal simulatis the microscopic examination shows their ening sloughing polypoid degeneration and metaplasa of the equithelium thickening of the hasement membrane ordema round cell initiation distattion or compression of the gland and thickening of the blood we sel walls in the times propria thickening of the periosteum and osteolofastic activity osteodavtic activity fibrosis hyperostosis osteomalacia and necrosis in the bones

2 The symptoms which may be associated with these microscopic changes include headache an anteromanal discharge a posteromanal discharge asthma arthritis failure of vision impairment of hearing and herpes of the second division of the fifth

3 There is no direct interrelation between the microscopic findings the symptoms and the results of operation

4 The incidence of spheno ethmoidal sinusitis is much greater among women than among men 5. The percentage of good results is much higher among women than among men.

6 Chrome hyperplastic spheno ethmoidal sinusiti is a distinct chinical entity in which the operative results are attended with improvement or complete recovery in a high percentage (7.4 3 per cent) of the cases
Murrora R Wariza M D

MOUTH

Brown G V I The Surgical Treatment of Gleft Palare J Am M is 151 1926 ktvvn 1379
Thompson J E A Septal Flap in the Glosure of Undateral Glefts of the Palate J Am M is 120 120 ktvxn 1384

In the operation described by Brown the velum and the posterior part of the hard prlate are closed by a bone flap and in the second step the anterior part of the palate fissure is corrected by any of the recognized methods in which a mucoperiosteal flap is used such as the von Langenbeck procedure. Brown employs a bone flap when the palate fissure is complete and the bone is involved. In the cases of edeattulous infants incusions are made on both sides of the palate in an anteroposterior direction along the line of, and just inside the alveolar ridge. When the teeth have erupted, they are made at just a sufficient distance from the linguognapival border to prevent injury to the tooth roots. A choice is to seed affectly through the external had sufface are to the control of t

Pressure inward and slightly upward causes the necessary fracture and permits both sales of the pulate fissare horder to be brought into immediate contact at a point between and slightly neteror to what in a normal case would be the outline of the posterior border of the pulate bones and also shoughout the extent of the soft parts. The medial edges of each mission are astured with pyokiami categut and pulled toward the midline. Gause packs are inserted into the operative wounds for five days. To prevent blocking of the nasal passages by the marks, one or more in all catheters are introduced.

Because of the unrestracted blood supply this method is associated with less danger of loss of tas see with a consequently, imperfect result than other procedures. It gives a full length unsufferent with a place may be a full length unsufferent with a place may be a full length unsufferent with a place may be a full length unsufferent with a place may be a full length unsufferent with a place may be a full length of the attacked which to two years before speech habits are fixed, no strous support, is done to the alweolar outline the uninjured supporting, bone framework, tends to improve the outline of the hip and the activity of both the position palatil and the planninged muscles cooperating with the labial and facial muscle assist a propressive development toward more 5 pm metrical facial and labial outlines all factors of importance in the acquirement of good speech

Thourson, states that unlateri clefts of the palate should be operated upon early fix object of his operation is the restoration of the curve of the alreolar border and closure of the anterior part of the palate by means of a flip taken from the side of the septum It results in union of the anterior ends of the alveolar processes and of a third or half of the front of the palate.

The septal flap is prepared first and the palstal flap next. An incision on the side of the spitum is made horizontally, from front to back along the ridge that separate the verticel and horizontal parts of the septum from each other. Its anterior end stops at the point in the groove which separates the dweelar ridge of the premarulal from its palstal surface. Posteriorly the incision ends at the posterior border of the septum. The base of the flap is formed by the juncture of the septum and the riucoperios teal layer of the hard palstal.

This flap of mucous membrane is peeled from the septum with a periosteal elevator and retracted

situation

toward the base Behind where the velum and hard palate bleod, it is difficult to raise the flap because of the palatal aponeurosis, but after careful supping away of the tusiest the whole palate with the flap bangs free on its lateral and posterior attachments

The palatal flap of mucoperiosteum is prepared

somewbat similarly

These flaps are now ready for approximation, but further preliminary steps are necessary before they can he sutured The maxillar, which are far apart, must be gently molded toward the midhine and their tips denuded of mucous membrane A silver wire suture is theo passed through the maxillary processes to bold them together. The bones are penetrated at a considerable distance above the alveolar margins to avoid injury, to the tooth sacs. The mattress sutures of the flaps are tied and the maxillar pushed firmly together. The silver wire is then tightened.

Feedings are given immediately after the operation. The wire is removed after three or four weeks and the sutures of the flaps are removed after four or five weeks if they do not come away sponta neously. George R VEATURE VID

Fig. F. A. Actinomycosis of the Tongue Report of Twelve Cases Surg Clin \ Am 1926 vi 1343

Primary actionmy costs of the tongue, while common to cattle and hogs is rare to man only thirty seven cases having heep previously reported. It has heen observed most frequently to adult males en

gaged in agricultural pursuits

In a typical case there is first ooted a hard, pain less, deeply situated nodule which to a few days comes to the surface, hecomes tender and painful softens and ruptures. This process is repeated until the entire toogue and the floor of the mouth become indurated and thickened.

If the lesion is incised just prior to its rupture sulpbur hodies and actionmices can usually be demonstrated to the pus. If a nodule is excised prior to softening, serial sections may be necessary to demonstrate actinomyces in the tissues. There is nothing else diagnostic in the microscopic picture

The treatment consists in wide excision of early nodules and free drainage of those that have softened together with reduum irradiation of the glands and increasing doses of a saturated solution of potassium nodide up to 200 drops three times daily

Eleven of the twelve patients whose cases are reported are well. The remaining one could not be traced but should be well since the early nodule was widely excised.

PHARYNX

New G B and Decker W J Pharyngeal Sinus with Cervical Pott's Disease Report of Six Cases Surg Clin M Am 1926 vi 1335

Six patients with cervical Pott's disease have been examined at the Mayo Chinic during the last fifteen

vears During the same period, twenty four patients with tuberculosis of the cervical spine without pharyngeal abscess were examined

There are four types of retropbarvugeal abscess (1) the acute, occurring laterally in the pharyms secondary to a nasopbaryngeal or pbaryngeal infection, (2) that affecting children, which is due to a similar infection in the cervical glands (3) the tuherculous type, which is associated with uberculous type, which is associated with tuberculous type, which is associated with tuberculous of the cervical glands and is a hrealing down of a tuberculous pbaryngeal gland and (4) the type secondary to tuberculous of the cervical spine. The tuberculous abscess may involve the upper or lower cervical vertebre. The symptoms vary with its

Pharyngeal abscess associated with tuherculosis of the cervical spine occurred only in males. Four of the patients were young. One patient was a mao aged 66 years and aoother a man aged 71 years. The symptoms extended over periods varying from six months to tweety-eight months.

Retropharyngeal abscess not associated with cervical Potts disease occurs most commonly in young children. Of seveoteen cases of retropharyngeal abscess examined which were not of titherculous ongin, elseen occurred in children less than 5 years of age. Of the thirty patieots with cervical Potts disease twenty two were adults six of whom had pharyngeal sinuses and eight were children without pharyocael siouses.

The part of the cervical spine tovolted was the first and secood vertehra in two cases, the secood and third vertehra in ooe case the third and fourth vertehra in one case and the seventh vertehra in one case and the seventh vertehra in one case and the Stap Clinic the seventh cervical vertehra was involved and the abscess ruptured into the esophagus, causing an esophageal as well as a cervical fistula

NECK

Hudson R V The So Called Branchiogenetic Carcinoma Its Occupational Incidence and Origin Brit J Surg 1926 mv 280

Among cases of malignant disease there occasion ally occur cases with a tumor of the neck to which on careful examination no discoverable focus of disease can be found. The tumor bas the microscopic characters of a squamous carcinoma. Io such cases the diagnosis rests between a primary carcinoma of branchiogenetic origin and a carcinoma secondary to a bealed or undiscovered focus elsewhere in the body.

Hudson states that the prevalent opinion with regard to these apparently primary tumors of the neck may be briefly summarized as follows

1 A solid malignant tumor of the neck showing the structure of a squamous celled carcinoma is most probably secondary to a bealed or undiscovered focus somewhere in the immediate vicinity. 2 A tumor originating in a vestigial remnant is rare but occurs in two main types (a) the hranchio genetic carcinoma (b) the so called endothehoma

genetic carcinoma (h) the so called endothehoma.

Eving emphasizes the fact that branchiogenetic
carcinoma is commonly cystic but admits the possi
bility of a solid squamous cell carcinoma of bran
chiogenetic origin.

The author reports in detail the histories of six cases of carcinomatous cervical tumor of obscure

origin which occurred in miners or grooms
Each of these tumors began is a small painless
swelling just below and behind the angle of the
mandible. The gradual increase in size of the swell
ing eventually compelled the pittent to seek treat
ment for pain referred to the temporal region and
the back of the neck. On examination the only
positive clinical sign was the presence of an ovoid
tumor regular in outline and firmly fixed to the skin
and deep structures. The center of the growth
lay just below and behind the angle of the jaw. In
spite of thindary ngoscopy no primary focus could
be discovered. Microscopy revealed that the tumors
were squarmous in origin.

In all of these cases the cervical tumor arose at the site of the jugulodigastic gland. This gland is large oval and flattened and about 2.5 cm in length. It is situated upon the medial aspect of great vein a site which may be called the critical point of the neck since here within the space of 2 or 3 cm amoss the vascular supply to the structures derived from the first five arches and to this point converge not only the greater part of their

enous drainage but also the lymphatic drainage. The upper third of the sternomastoid laterally and the ascending ramus of the mandible medially tend to limit the spread of these tumors and favor the ovoid form which they maintain until a late.

stage in their development

In only one case was an autopsy possible In this

instance the primary focus was in the pyriform fossa. The fact that all of the tumors described occurred in miners or men who had worked with horses all their lives suggests that in occupations in which a certain anatomical tract is frequently subjected to trauma such a site must be regarded as a possible portal of entry for a common causal agent

With regard to treatment it may be stated that in the great majority of recorded cases surgical removal was disappointing recurrence was generally rapid and stal. The poor results are attributed by the author to the difficulty of early diagnosis due to the site of the tumor and the presence of a pri mary focus acting as a neoplastic cell deput

In the cases reviewed operation was not considered. The patients were all hopelessly importable at the time they were first seen. The method chosen was radium uradiation. One of the patients is still alive and well and in another the original timor bearing area was apparently free from growth at the time of death.

The diagnosis of these tumors rests principally

The solid tumors that may occur at the same sute are the primary endothelomata of lymph glands of the single type and endotheliomata of by single type and endotheliomata of branchio genetic origin. Microscopic sections only will prove the diagnosis. The solid tumors occurring near the site in addition to the tumors mentioned are the endotheliomata and especially carcinomata begin ming in the lower pole of the parotic gland but these growths are always at a higher level and more super fiecal and spread in the parotid substance and check as well as the post raiml recess. Tumors of the carotid body are situated at a lower level and tend to be globular and early irregular in outline their histological picture is definite.

An early diagnosis will always be difficult but the presence of a unlateral punless tumor at the site of the jugulodigastric gland in an elderly man should be regurded with suspicion

INCORS GROVE VID

Menne F B Joyce T M and von Hungen A P Thyroid Disturbances A Clinicopathological Study of 300 Instances 1rch Surg 2926 xm 329

The authors suggest the following classification of thyroid conditions according to their gross char acteristics and the salient microscopic findings
PATHOLOGICAL CLASSIFICATION OF THE NORMAL OR

ATHOLOGICAL CLASSIFICATION OF THE NORMAL OR ENLARGED GLAND WITH OR WITHOUT INCREASED OR DECREASED ACTIVITY

Diffuse parenchy matous hyperplasia

A Gross examination compact ischæmic grayish

white and colloid free

B Microscopic examination (a) hyperplasia and

hypertrophy of epithelium (b) penpheral of general vacuolization of colloid (c) dilatation of lymph channels and engorgement of blood vessels (d) variable increase in the supporting stroma with or without round cell infiltration

2 Diffuse adenomatous hyperplasia

A Gross examination diffuse reddish brown gland without noticeable nodularity or accentuation of lobular markings variable amount of colloid

B Vicroscopic examination (a) Gload changes samilar to those in Group i (b) normal or colloid stretched sixtoli (c) for, apper plans and hypertrophy of epithelium (d) intradictor projections (e) intradictor projections (e) intradictor projections (e) physical policy of the colloid sixtoli projection (e) physical policy (f) for intradictor projections (e) physical policy (f) for interessed vascularity and dilated lymph channels

3 Nodular adenomatous hyperplasia

A Gross examination variable nodular accentuation of the lobular markings with or without excessive colloid storage cystic degeneration harmorrhage scarring or lime salt deposit. The color usually varies with the regressive changes.

B Microscopic examination (a) focal cytological changes similar to those of Groups 1 and 2 compensatory, (b) characteristic retrogres sive changes (c) areas of adenomatosis

4 5olitary adenoma

A Gross examination variable in size circum scribed solitary or multiple grayish white to dark reddish brown solid, cystic or colloid filled regressive changes may be

B Microscopic examination (a) all stages of fetal types of alveoli (b) peripheral pseudocapsule formation with round cell infiltration and compressed alveoli (c) focal neighboring areas in adjoining parenchyma (d) neighboring areas of adenomatosis

5 \text{reoplasms}
6 Inflammation (a) pyogenic (b) infectious granu
loma

Of the 300 cases of thyroid disturbances reviewed thirty eight (12 6 per cent) belonged to Group 1 diffuse parenchymatous byperplasia 108 (35 per cent) to Group 2, diffuse adenomatous hyperplasia 102 to Group 3 nodular adenomatous byperplasia forti-one to Group 4, solitary adenoma with byper plasia seven to Group 5 neoplasm, and four to Group 6 nifinammatory processes

The following conclusions are drawn

x A simple clinicopatbological study is desirable

in all thyroid diseases

2 The incidence of so called exophtbalmic goiter (diffuse parenchymatous byperplasia) in relation to other types is of importance

3 Pregnancy is a factor precipitation thyroid

unbalance

4 The pulse pressure in thyroid disturbances is usually high it is highest in the parenchy matous byperplasia group I to out of proportion to the ordinary chaoges to the blood vessels occurring in continuous matching and the light of the proposed of the proportion of the ordinary chaoges to the blood vessels occurring in continuous matching the proposed of the pro

early and middle life
5 The basal metabolic rate is a valuable indicator of thyroid unbalance and should be deter

mined after operative procedures as well as before 6 More experimentation is desirable to deter mine the significance of adenomatosis, solitary ade noma and other nathological changes as well as the

clinical effect of the amount of the gland removed JOHN J. MALONEY M.D.

Keith W.D. Goiter from the Standpoint of Prevention Canadian M 1ss J 1926 xvi 1171 Gordon A. H. Goiter Its Medical Aspect Canadian M Ass J 1926 xvi 1176

McGuffin W H Gotter From a Radrologist s Viewpoint Canadian M 4ss J 1926 xv1 118 Fahrni G S Goiter Its Surgical Treatment Canadian M 4ss J 1926 xv1 1188

KEIHI reports that 10 Indian villages on the coast the inhabitants of which subsist to a large extent on salmon, salmon eggs and seawed gotter is practical ly unknown. An Alberta survey however demon strated that Indians are as subject to goiter as any other race. Further investigation proved that the incidence of goiter was increased where the drinking water was of a turble or murky character. These

waters are not iodine free, but may contain iodine in an unassimilable form or some other organic or in organic matter which has a definite iofluence upon

the growth of the goster

For the prevention of goater, Keith recommends the use of such food as salmon and other sea foods rich in iodine. The drug should be given in a gotter distinct for both prevention and cure, but its general use in the cases of school children should be carefully regulated in order that it may not cause toxic symptoms.

Gógno describes simple adenoma and cystic adenoma and points out that in the latter presure on the trachea may cause symptoms of a confusing nature and even dea h from asphyxia. Acute thyroditus may occur in the course of any of the micetious diseases and in certain cases of acute re

actions due to infected toosils

To us gotter must be differentiated from simple gotter and from noe gottous conditions. Tacby cardia, tremor and loss of weight are of much importance. In order property to evaluate the basal metabolism it must be remembered that the rate may be increased by many factors. Constant read logs of + ro or over may be considered as positive. Hy perthy roidism may be due to torus adenoma to dine byperthy roidism or exophthalmic gotter. The first ty pe appears in persons of middle age in whom a thyroid tumor has evisted for a number of years. The usual evidence is present but there is no exophthalmos.

Iodine hyperthyroidism may occur from self therapy or improper medication in cases of simple gotter. In evophtbalmic gotter there is probably some other torue element at work in addition to thyroxin as this condition cannot be produced by the administration of thyroxin or iodine. Myo cardial damage in the chronic case may be due to the effect of torus as well as to overactivity. In the treatment iodine in proper doses is of value, eveo though its effects are temporary. Surgery offers the

best hope of complete relief

VICGUPPIN classifies goiter as

Physiological gotter due to iodine deficiency
Pathological gotter without hyperthyroidism
This includes diffuse colloid pareochymatous,

adenomatous and cystic gotter
3 Pathological gotter with hyperthyroidism in cluding toxic adenomata and exophthalmic gotter

Cuding touc adenomata and evopbthalmic goiter. With the evception of the last these types are progressive from one to the other in the order given Exophthalmic goiter shows hyperplasa of the epithelial elements lining the acim. In the treatment, mental and physical rest are important. Radium is preferred for the more serious cases because it is portable. The desage is determined by the degree of toucity and the basal metabolic rate. One hundred milligram hours are given over five areas for each to per cent increase in the basal metabolic rate. Treatments are repeated oo each of five successive days and over each side of the neck every week for four weeks. The improvement is gradual

The pulse rate falls the nery ourness ceases the meta bolic rate is diminished, and the patient begins to

gain weight

The author cites the advantages of \ ray and radium therapy and answers the objections advanced by the surgeon. He denies that the \ ray miures the parathyroid glands or produces adhesions about the gland Most of the cases which do not respond to \ ray or radium irradiation have not been given sufficient treatment Because of the number of surgical failures and the degree of operative risk the author prefers \ ray or radium treatment to surgery

I AHRNI states that although hyperthyroidism constitutes the large majority of surgical goiters other forms such as large colloid cystic and nodular gotters causing pressure demand surgery Ade nomata have a tendency to become toxic in later These cases coming to operation late in toxicity constitute some of the most difficult cases Many cases of colloid and adenomatous goiter are as ociated with a lack of energy extreme fatigue and mental irritability. These have been described as cases of dystbyroidism and are readily cured

by removal of the gland

The author reviews a series of 320 thyroidectomies The condition for which the operation was done was exophthalmie goiter or primary by pertbyroidism in 55 93 per cent toxic adenoma in 30 per cent large adenomata in 6 25 per cent large colloid nodular goster in 3.75 per cent cystic goster (usually large and often associated with adenoma) in 3 75 per cent and earcinoma in o 31 per cent Eight operations were done for recurrence following thyroidectomy performed from one to twelve years previously

WILLIAM J PICKETT M D

Mayhew J M The Basal Metabolism and the Blood Chemistry \ebraska State \ J 1926 x1 400

Emerson C The Pathology of Goiter erson G The State W J 1976 xt 4t1
State W J 1976 xt 4t1
The Medical Management of Golter Nebraska Bliss R W

Aebraska State W J 1926 vi 416 e E W The X Ray Treatment of Goster Nebraska State M J 1026 XI 419

MAYHEW cautions against relying entirely upon the basal metabolic rate in the diagnosis and treat ment of thyroid conditions. He believes that the following three tests should be made

The basal metabolism test plus chinical observation In the absence of fever acromegaly leukæmia and severe anæmia an increased basal metabolic rate is strongly suggestive of hyper

thyroidism 2 The glucose tolerance test. In toxic thyroid conditions the return of the blood sugar to the normal is delayed from one to two hours

3 The serological test evolved by Kottman which is based on colloid chemistry. The technique of this test is described

EMERSON states that the cause of dysfunction and associated anatomical changes in the thyroid gland is generally conceded to be an excitation due to a deficiency of sodine Under this excitation hyper tropby and then hyperplasia result If the excitation is severe exophthalmic goiter is produced. Extreme excitation induces atrophy and fibrosis with result ing myxcedema Long continued mild excitation gives rise to simple or toxic adenoma. If the excitation ceases the histological picture returns toward the normal but evidence of the previous ehanges persists This is the simple non toxic colloid goiter

Marine and I cohardt have proved that a defi ciency of jodine induces over activity of the thyroid but many chinical observations have demonstrated that the injudicious administration of iodine has

stimulated over activity

The author presents a pathological classification of gotter according to the etiology

Buss discusses the medical management of goiter

and draws the following conclusions Adolescent colloid goiter is prevented or greatly benefited by the administration of jodine but the

treatment of a community en masse with iodine is dangerous Colloid goiters in adults are benefited by iodiae

but the patient requires careful supervision Benign adenomata are harmed by iodine and

should be removed before they become toxic Exophthalmic goiter requires both medical and

surmeal treatment Digitalis is indicated only in auricular fibrillation or cardiae failure

As infection may play a rôle in goiter the eradi cation of all known foci is indicated

RowE states that clinical observations and records of the basal metabolism rate indicate that properly selected cases of gotter are as rationally treated with the roentgen ray as by surgery

The general management of the patient is as im portant is roentgen ray treatment as in other modes

of therapy Cases of adenoma with toxicity yield more readily to surgery but often show excellent results from roentgen ray treatment

Exophthalmic goiter shows the best results of all

In roentgen ray treatment there is no mortality no fear of the treatment and no scar The treatment of toxic goiter is major roentgen

therapy and demands skill The frequent check of the metabolimeter is an aid

in diagnosis and treatment

J FRANK DOUGHTY M D

Hotz G The Operative Treatment of Basedow s Disease (Zur operativen Behandlung des Basedow) Deutsche med II chnicht 1026 ln 604

The more gostrous tissue that can be removed in Basedow's disease the more favorable is the result However extensive reduction is usually very dan gerous An important advance in the treatment of the condition is the prior determination of the basal rate of oxygen exchange In Basedow's disease this is very greatly increased On the basis of the findings of this test the author has often operated in from two to four stages, first ligating the vessels and later resecting one or both halves of the thyroid pland In this way the dangers may be materially lessened Often the result is good after simple ligation of the vessels

After a time, often after years, the complaints return following the establishment of the collateral blood circulation and further resection must be performed. The disadvantage of this method of treatment consists in its long duration and the difficulties attendant upon the second operation.

A further advance in the surgical treatment of Basedow a disease was brought about by the use of gynergen. This preparation is supposed to have an effect antagonistic to that of thyroun. The pulse rate can be easily lowered by it. Permanent im provement of the symptoms following the use of

gynergen alone was not observed

The favorable effect of large doses of lodine on the acute phase of Basedow's disease is a very interesting and unexpected advance in the operative therapy. Following large doses of iodine (from to go drops of Lugo) solution daily) the basal metabolism is reduced by 25 per cent. However this improvement is not permanent. The optimum effect is obtained in eight days. The basal metabolism cate then rises again. The iodine should therefore be given several days before the operation and particularly during the first days of the postoperative treatment. After eight days it should be discontinued.

Korenchevsky, V The Influence of the Removal of the Thyroid Parathyroid and Sexual Glands and of Thyroid Feeding upon the Regulation of the Body Temperature of Rabbits J Path & Batteriol 1026 xxx 661

The cooling of normal young rabbits produces a more pronounced fall in the body temperature than the cooling of normal adult rabbits. After thyroid

ectomy, cooling causes a much more pronounced decrease and warming causes a much less pro nounced increase in the body temperature than is observed in the normal animal before removal of the thyroid. Some adult thyroidectomized rabbits may die after a degree of cooling which normal rabbits are able to resist. The cooling of young thyroidectomized rabbits is lethal under conditions which, in the same rabbits before the operation, produced only a temporary fall of body temperature.

Parathyroidectomy does not change in a marked degree the response of normal or thyroidectomized arbits to cooling or warming. In eleven experiments the influence of castration on the response seemed to be similar to that of thyroidectomy, but the changes produced were much less marked. The cooling of two rabbits in which both the sexual glands and the thyroid gland bad been removed was followed by a lethal fall of the body temperature, a fact suggesting an influence of the sexual glands on the regulation of body temperature similar to that of the thyroid gland. Rabbits in which the thyroid parathyroid and sexual glands were removed simul taneously responded to cooling or warming in the same way as thyroidectomized animals.

The response of thyroidectomized rabbits to cool ing or warming may be restored to normal by thyroid feeding. After long and excessive thyroid feeding, warming may even be followed by a lethal overheating with a rise in the body temperature to 43 5 degrees C. This effect of thyroid feeding upon thyroidectomized rabbits is produced only after about a week of thyroid feeding and does not disappear until several weeks after the cessation of the thyroid feeding. The resistance to cooling disappears before the resistance to warming

In conclusion the author states that as the thyroid gland plays an important part in the regulation of the body temperature, its condition must always be taken into account in considering the resistance of different individuals to cold or heat and cases of disease accompanied by fever

STANLEY J SEEGER M D

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Demel Living Dogs Whose Skulls Ifave Been Subjected to Roentgen Irradiation (Lebende ffunde deren Ilurnschaedel mit Roentgenstrahlen bestrahlt wurden) Zentrabli f Chir 1936 lui 2155

Having demonstrated during the past year dogs which following repeated irradiation of the skull showed disturbances of growth an ataxic gait and atrophy of the eye grounds the author describes in this article the histological findings in the brain and eye grounds of these dogs

The irradiated brain showed a general decrease in size and attophy of the right half the side to which the irradiation was directed. The phylogenetically older portions of the brain withstood the irradiation.

better than the younger parts

Histological examination showed a reduction in the pyramidal area and of the corpus resistorme in the medulla oblongata and a reduction in the numbers of fibers in other regions. The cortex showed in disturbance of layer formation the disappearance of cells and a vacuoliang degenerative affection of the ganglion cells. There were no inflammatory or reactive processes in the blood vessels. Marked changes were found in the retina which had in places almost disappeared. The choroid and optic aeric were apparently horms.

The histological findings explained the changes

previously noted in the living animals

JANSSEN (Z)

Sargent P Types of Cerebral Tumors Brit U J 1926 ii 648 Souttar II S A New Form of Craniotome for Opening the Skull Brit U J 1926 ii 630

Opening the Skull Brit M J 1926 II 630
Bertwistle A P Localization by the X Rays
Brit M J 1926 II 631

In his discussion of the types of ererbral tumors SAGGENT calls attention to the pertinency even today of the remark made by Horsley twenty years ago with regard to so called expectant treatment of intracramal tumors. Horsley said. Considering that, in the absence of any active surgical treatment the only thing to be expected is death the term expectant treatment has always to my mind carried with it its own condemnation for inhumants.

Sargent brings out the fact that advances in surgical technique have robbed intracranial surgery of some of its terrors and that in cases of extebral tumors surgery offers the only hope of either a cure or alleviation of the symptoms. Tumors can now be more definitely localized and even their nature can be predicted to some extent before the operation is

performed

Glomata have a progressive and infiltrating groats but never metastance or spread beyond the brain. If pituitary and cerebellopentine tumors are excepted the constitute nearly 80 per cent of intra-cranial growths. They may be almost completely cystic and so degenerated that hittle if any recognizable tumor tissue is left or firm solid and circumserabled but not encapsulated. For the more common rapidly growing and infiltrating type only pallative measures are possible.

In some cases Sargent has employed from 50 to 50 mgm of radium for twenty four hours About 25 per cent of patients with cerebral gluomata die sbortly after operation and about 50 per cent die within eight months after surgical treatment. About 25 per cent make good recoveries surviving for several years and being able during that time to

earn their own living

In cases of cerebellar glomata the results are better. The operative mortality is less than half that of cerebral gliomata. Twenty eight per cent of the patients are allow and well on an average of three years after the operation and the average survival of the remainder is thritten months. Sargent cities the cases of three patients who are clinically cited

Endotheliomata are benign slowly growing en capsulated tumors arising from the cells of the arachnoid tufts They do not actually invade the brain but form depressions in it Complete removal requires the removal of the dura overlying the tumor and this is sometimes fraught with danger and difficulty on account of the presence or proximity of the large venous sinuses. Endotheliomata are relatively rare. Of seventy five eases in which they were completely removed a good recovery resulted in 50 per cent Patients who recover may be divided into two groups those restored to their normal lives and occupations with no neurological defect (2 per cent) and those with a neurological defect such as palsy convulsions etc (38 per cent) The operative mortality is high

The majority (oo per cent) of cerebellopontune tumors are neurofibromata As a rule these growths are firm solid and encapsulated but they may be soft and even cystic. For ears the only complaints may be deafness and head noises. Barkiny tests are positive in the early stages. Often the corneal reflex is lost or diminished. In all cases of nerve deafness to the corneal reflex should be determined and the Barany test carried out. A cerebellopontune tumor certification of the complex of the corneal reflex is not a function of the corneal reflex is not a function of the corneal series of the series of the corneal series of the series of the corneal series of the series of the corneal series of the s

masse is hazardous. It should be removed by intra capsular enucleation in fragments and by suction

Pituitary tumors are divided into twn groups (r) pituitary tumors proper most of which are adenomata arising in the sella turcica and invading the cramal cavity, and (2) suprapituitary tumors, arising above or in close relation to the sella Judged from the point of view of visual improvement—and in most cases there are visual disturbances—the gain from operation greatly outweighs the operative risk. It is certain that as these cases come to operation earlier and before the visual pathways have been severely damaged better results will be obtained Decompression will render the patient more comfortable as it affords rehef from beadache and often results in improvement in the mentality.

In conclusion Sargent says that the outlook for further improvement in cases of intracranial tumors depends to some extent on the further improvement of surgical technique but even more upon earlier diagnosis and accurate localization. The onset of the classical signs—beadache vomiting and papil leadema—indicates the beginning of the terminal stage of the condition. It is of vital importance that surgical intervention take place before this stage is reached. A careful neurological examination should be made in every case of disturbance of cerebral function especially when it is persistent or progressive. In many cases there will be a bistory of some slight disorder which has been present for months or years.

SOUTIAN describes a new form of cransotome for opening the skull with the use of which his average time for turning down a large bone flap is between two and two and a balf minutes. The appliance consists of a stud to be fixed in a trepbine opening in the center of the bone flap, which carries an arm or lever that can he swing around in a circle and upon which the cutting instrument can be fixed at any desired distance from the center. This instrument cuts through the bone very rapidly and with little exertion on the part of the operator. It carries a guard to prevent injury of the dura. Souttar uses also a specially devised hrace and bit for treohuming

BERTWISTLE describes a method of localization of various parts of the brain by means of the X ray In this procedure he uses an apparatus made of watch spring steel which consists essentially of a base line extending from the glabella to the external occipital protuberance upon which are erected at right angles at accurately designated distances a number of upright members. This apparatus is placed upon the head a lateral roentgenogram is made and hy means of measurements and cal culations the various gyri can be localized and projected upon the skull cap. In this manner an ex ploration can be made exactly over any desired area For measuring these distances. Bertwistle uses an inexpensive celluloid instrument which he calls a ' gyrometer The metbod is of value particularly in cases of depressed fracture, but is helpful also in ca es of brain tumors GILBERT C ANDERSON M D

Heymann, E. Clinical Experiences with the Development and Removability in Tumors at the Cerebellopontine Angle on the Basis of Twenty Two Observations (Klim the Erfahrun gen ueher die Entwickelung und Entfernbarkeit der Kleinhim Brucekchunnkelgeschweit es auf Grund von 2° Beobachtungen) Beitr z klin Chir 1926 CEXEVI 383.

The author designates tumors at the cerebellopounds angle as tumors of the acoustic nerve. He discusses the diagnosis and prognosis of these tumors not the basis of twenty two cases. The unilateral acusticus disturbance and the simultaneous failure of the reflexes of the cornea are absolutely definite focal symptums. In addition there may also be signs in the adjacent areas. Cboked disk and bead ache in the opposite frontal region are common. The neurological and the otological findings render inther methods of diagnosis unincessars.

The operative procedure is described in detail Of the author's patients 43 7 per cent remained alive for some time after the operation. When blindness has once developed operation is useless koes (Z)

Eagleton W.P. Ottue Meningitis J. 4m M. Ass,

From the standpoint of operation, cases of suppurative meningitis at an early stage may be divided according to the region of protective reaction as follows

r Posterior fossa cases

- A Labyranth cases (a) from infection through the internal auditory meatus (b) from infection by way of the ductus endolymphaticus (c) from caries of the posterior emicircular canal
- B Cases from caries of the petrous pyramid with out labyrinthitis—Trautman's triangle etc. C Cases eccondary to thrombophlebitis of the
 - lateral sunus
- Viiddle fossa cases
 - A Secondary to caries of the tegmen apical cells, superior semicircular canal
 - B From thrombophlebitis of the small sein
 - C 4. sociated with osteomyelitis of the squamous

In any of these the operative discovery of the causative pathological lesion will determine the area of the cerebrospinal fluid system to be drained

In septic meningitis, operation should be done while the inflammation is limited to an area adjacent in the primary focus of infection or an adjacent in the primary focus of infection or an adjacent quescence, when there are slight signal in meningeal involvement that surgery offers a fair prospect of recovery.

There is an doubt that the body frequently succeeds in spontaneously overcoming the infection in many cases especially if the increased intracranial pressure is relieved by repeated lumbar punctures in twin afthe author is case, in which death occurred

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Swan R II J and Fry II J B Tuberculosis of the Male Breast brit J Surg 1926 up 234

Tuberculosis of the male breast must be accounted a pathological currosity. Not more than twelve cases have been recorded in the literature since the condition was first described nearly a century 120. In spite of the widespread prevalence of tuberculosis in its various forms tuberculosis into some time to the first the condition of the breast even in the female is a rare condition.

The authors report the case of 1 man 42 years of age who complained of a swelling in the left breast which he had noticed for three months. During the last month there had been some retraction of the nipple. I wenty four years previously the patient was operated upon for tuberculosis of the niph high.

moint which was ankylosed

Examination of the brevist revealed a rounded hard somewhit nouliar swelling about 2 in in diameter which was fived to the subpacent pectoral muscle. The nipple was slightly retracted. The sin of the arcola and of the part immediately sur rounding it was thickened and adherent to the mass but there was no redness or odems. Several small glands were pulpable in the left vidils. A diagnosis of carcinoma of the breast was made. Radical re moval of the breast was followed by complete recovery.

The specimen showed an abscess cavity immediately beneath the nipple in the latty areofar tissue between the pectoralis major and the skin. On examination of the pus from the abscess a consider able number of tubercle bactin were jound

Following the operation the patient was exim ined for other evidences of tuberculosis. Small hard nodules were found in the epidelymis on both sides and one was di covered to the upper part of the right lobe of the prostate. In the history of veneral disease these were looked upon as old feet of tuberculous infection.

Tuberculosis of the breast is of two types per rary and scoundary. The infection is considered to be primity when it occurs either directly through the skin of the breast or through the ducts of the nipple or is conserved to the breast through the blood stream from a remote portal of entry. The type which is secondary to foci elsewhere is the commonest.

Various pathological types of tuberculous disease of the breast are described namely (1) icute miliars tuberculous mastitus (2) the nodular type (3) the sclero ing type and (4) massitus obliterans Only the nodular type appears to occur in the male

The condition can be recognized with certainty by the finding of tubercle bacilli in the tissues or in the pus of the abscesses by their cultivation from the pus or by animal inocultion in suspected cases

The course of the disease is ripid in the male nor than from three to six months—and shorter than in the female. This is evidently due to the fact that a small lump is recognized more easily in the rudinicatary male breast and treatment is instituted earlier. In at least half of the cases the mittal six mas a lump in the breast. Pain was present in only two cases. The site is usually the re, mo of the nipple.

The condition must be differentiated from ordinaty pyogenic mastitis and abscess granulomata (actinomycosis syphilis) simple and malignant

tumors and fat necrosis

The prognosis appears to be uniformly good Radical excision of the breast with the removal of all tissues involved and with or without clearing of the axill seems to be the method of choice. In cisson and draininge his also proved effective

JACOBS GROVE VID

TRACHEA LUNGS AND PLEURA

Desjardins A U The Reaction of the Pleura and Lungs to Roentgen Rays im J Roenigenol 1926 xvi 444

Inflammatory reaction of the pleura and lungs to irradiation may occur in any case in which a suffi cient dose of ridium or roentgen rays has been di rected to these structures The symptoms of pleuro pneumonitis may appear from two to lour weeks ifter a course of rountgen ray treatments. The chief symptoms are a cough shortness of breath and sometimes fever. In from one to three weeks their acute phase subsides as the remaining lung tissue adapts it will to the new lunctional requirements and as the more or le s injured pulmonary parenchyma recovers its normal activity. The physical signs of pleuropneumonitis vary considerably depending upon the degree extent and situation of the pleural or pulmonary tissue injuries. Rales and a pleural rub or pleural effusion may occur. Such physical signs diminish to a large extent but evidence of chronic pleuropneumonilis persists in the form of adhe ive binds or more or less extensive adhesion of the pleural layers If sufficient pulmonary tissue has been involved a varying degree of functional im pairment results leading to compen atory emphy sema of the remaining pulmonary parenchyma

During the early phases the roentgenological signs may consist merely in the diffuse fog of inflam matory pleural thickening with or without the still den er shadow of effusion or they may simulate fairly closely those of the focal type of pneumonia so commonly seen after influenza Since the site of such infiltration must necessarily depend upon the conditions of the roentgen ray treatment, the possi bility that the roentgen rays may be responsible for the pleural and pulmonary disease process must include the coincidence of cause and effect in the

same region

The differential diagnosis between pleuropneu monitis following roentgenization and certain forms of pulmonary metastasis may be difficult This dis tinction may require periodic observation. In cer tain cases the differentiation between the pleuro pneumonitis due to roentgenization and lung abscess must be made such a distinction is rarely difficult if the clinical features of pulmonary suppuration such as the abundant expectoration of pus and the irregu lar and rather high fever are horne in mind It may be necessary also to distinguish a pleuropulmonary reaction to the roentgen rays from other inflam matory manifestations, but the correlation of the history and physical findings with the history of roentgen ray exposure usually constitutes a satis factory hasis for the diagnosis

Nearly all writers on the subject have conveyed the impression that pleuropneumonitis following ir radiation of the thorax is related in some way to the use of roentgen rays of short wave length While the voltage at which the rays are generated and the filter selected probably evert a certain limited in fluence on the process the chief factor is quantitative and related to the duration of the exposure In other words inflammatory manifestations in the plcura and lungs are more likely to supervene the nearer the dosage approaches or passes heyond the limit of skin tolerance. In the author's experience pleuropulmonary reaction never follows the first course of roentgen ray treatment and seldom fol lows the second but on further treatment given with full dosage the occurrence of such manifestations is probable

ŒSOPHAGUS AND MEDIASTINUM

Maydl V A Case of Fatal Rupture of the Cardia in Dilatation for Cardiospasm with Stark's Sound (Ein Fall einer toedlichen Kardiaruptur bei einer Kardiospasmusdilatation mittels Starckscher Sonde) Wed Alm 19 6, xxii 408

The author used Stark's method of dilating for cardiospasm in seven cases with very good results The patients, who had been unable to swallow solid food for from two to twelve years, were completely cured In three cases the dilatation decreased from I to 3 cm, the previously atomic resophagus having re acquired its peristalsis and tonus. The dilatations were all done on ambulatory patients. The pain felt in the breast at dilatation soon ceased

The fatal runture caused by the dilatation oc curred in the case of a man 24 years of age who was suffering from esophageal symptoms which had become so severe in the last four years that he was able to swallow only fluids Numerous treatments with sounds and the administration of drugs to over come the spasm were of no benefit. The roentgen ray examination made with a contrast meal showed dilatation of the exophagus with the formation of an isthmus From this point only a very fine pas sage led into the stomach Stagnation of the con tents of the œsophagus lasted for six hours By means of the esophagoscope it was possible to see the spastically contracted mouth of the cardia at a depth of 43 cm No trace of infiltration or ulcer was noted A Starck sound was passed under Y ray control and the dilator fitted into place in the pas sage, a procedure that did not require any particular exertion of force No blood appeared on the sound That night the patient suddenly collapsed Death occurred eighteen hours after the dilatation

Autopsy revealed a tear 11/2 cm long and 15 cm wide in the mucosa and musculature of the posterior wall of the cardia directly below the diaphragm and

a diffuse peritonitis

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Ssokolovskii M P The Absorption of Bacteria from the Abdominal Civity (Bestraege zur Frage ueber I esorption der Baktenen aus der Bauchhoehle) lesinik chirurgii i pogramčnych oblaste1 1025 15 20

The author studied the conditions of resorption of bacteria from the abdominal eavity especially the importance of the lymphatic system and omen tum in this process in a series of experiments on dogs. Various kinds of foreign bodies such as dies and hen's erythrocytes and of bacteria such as bacillus pyocyaneus and bacillus prodigiosus were introduced into the abdominal cavity. The lymph from the thoracic duet was then studied

The bacteria were found in the arterial and venous blood as well as in the lymph of the thoracic duct after from ten to fifteen minutes Ligation of the thoracie duct prevented their entrance into the general erculation Externation of the great omen tum did not reduce the resistance of the body to

infection and had no influence upon the resorption of bacteria and foreign bodies

The most important conclusions to be drawn from these experiments are the following

The resorption of bacteria and insoluble powders introduced into the abdominal eavity oc curs by the lymphatics and not by the blood vessels

2 The lymphatics have a marked capacity for resorption

3 In resistance to an infection an important fac tor in addition to the action of the great omentum and the peritoneal exudate is the resorption of bacteria through the lymphatic vessels into the general circulation The latter results in a mobili zation of all of the protective nowers of the body ALIPOT (Z)

kirschner The Treatment of Suppurative Diffuse Peritontits (Die Behandlung der eitrigen freien Bauchfellentzuendung) 30 Tag d deutsch Ges f

Chir Berlin 1026

Kirschner first reviews briefly the various hy potheses advanced to explain deaths from suppura tive diffuse peritonitis. According to one theory the towns cause paraly is of the vascular centers in the medulla oblongata This supposition is open to the objection that the blood pressure falls only a short time before death. It is more probable that the toxic effect is exerted upon the capillanes of the abdominal cavity as the result of which the portal circulation is injured the blood accumulated in the abdominal cavity being true ported no further There is is it were a hemorrhige into the abdominal cavity. However even this theory is

not supported by conclusive evidence. Therefore for want of an explanation of the cause of death reliance must be placed upon statistics to determine the proper method of treatment

I rom a review of the eases treated at the koenigs berg Clinic during the last thirty years and 10 000 case records which Kirschner collected by a ques tionnaire sent to twenty three clinics and hospitals it becomes apparent that the eause of peritonitis is a factor in the outcome of the condition. In the cases due to appendicitis the mortality was 35 2 per cent in those due to gastro intestinal perforation it was 48 a ner cent and in those following operation it was 100 per cent

Moreover it appears that the resistance to the disease varies at different ages. Of 1 000 patients 13 5 per cent died before the fifth year of age 100 per cent in the fiftcenth year to r per cent at the age of so years 20 1 per cent at the age of 60 years

and 44 3 per cent at the age of 70 years

The constitution also plays an important part in resistance to the condition. Of chief importance however is the time at which operation is done The mortality of operations performed within the first tucive hours was only 240 per cent while that of those done within from twelve to twenty four hours was 32 4 per cent that of those done after from twenty four to forty eight hours 45 4 per cent and that of those done after forty eight hours 66 6 per cent Therefore every case of acute diffuse peritonitis which is operable should be operated upon a soon as possible When the diagnosis is certain the only exception to this rule are cases of peritoritis due to the genecoccus and the pneumo The latter are rarely diagnosed before operation the majority of cases coming to operation under the diagnosis of appendicitis

The author emphasizes that with the exception of Pels Leusden all of the surgeons to whom the ques tionnaire was sent were in agreement with rega d to the fundamental principle of immediate operation

In laparotomies the chief essential is gentleness in the handling of the tissues. The incision in the abdominal wall is made directly above the suspected focus of disease or when there is doubt in the mid line It is made large enough to allow a good view of the disease focus and an easy approach to it The main object of the interference is the certain removal of the source of infection in the simplest manner If possible a perforated organ should be extirpated in exception to this rule in the opinion of most surgeons as the perforated gastric ulcer for which more conservative operative methods for the elimination of the infection are advisable. The eventration of large sections of gut should be avoided as much as possible

With regard to the manner of removing exudate found in the abdominal cavity—whether this should be removed by irrigation or by dry sponging—there is a difference of opinion. Thirteen of the clinics to which the questionnure was sent were in favor of irrigation fourteen in favor of sponging and five reported that they sometimes follow one plan and sometimes the other. The statistics do not show any marked difference in the results. The author recommends irrigation with physiological salt solution for the removal of exudate which is uniformly distributed over the entire abdominal cavity and sponging, for the removal of that which is localized.

Kirschner is opposed to the introduction of drugs such as ether, camphorated oil elmocid, pepsin hydrochloric acid and rivanol, into the abdominal cavity Only two of the surgeons questioned were in favor of it The mechanical emptying of the gut at operation, which is so important in ileus and the primary formation of an intestinal fistula should be omitted Just as ineffective are attempts at drain age of the free abdominal cavity. If it is possible definitely to remove every focus of infection the abdominal wound should be closed completely If such thorough removal is impossible only the locally circumscribed focus of infection should be drained This can be walled off from the free abdominal cavity by tamponade. Investigations have shown that the drain is completely walled off after from twelve to twenty four hours The secretion that comes away thereafter is only the secretion from the drainage canal Drainage of the cul de sac of Douglas first suggested by Rehn, and the Rehn Fowler low position of the pelvis which have been recommended for this purpose, do not lead to the desired result. They should therefore be omitted and the patient placed in the horizontal position or the position that is most comfortable

In the after treatment the general resistance the tone of the blood vessels and capillaries, and the heart action should be strengthened Camphor preparations especially when used indiscriminately have not proved as beneficial as digitalls and suprarcian Especially important is the use of morphine the sovereign remedy for sparing the heart. I luid should be administered by rettal and intrivenous drip infusions in quantities sufficient to produce from 1 to 1½ liters of urine daily. In stead of sodium chloride solution normosal and glucose solution may be used. According to recent investigations it is advantageous to add insulin to

improve the utilization of the sugar. When vomiting occurs, periodical lavage of the stomach or drying of the stomach by means of a retention catheter through the nose and aspiration are of value. Of greatest importance is the stimulation of intestinal function. This executates the toxins accumulated in the intestine, removes the blood from the portal circulation and as was shown by the experiments of Usadel acts against the stag nation of blood that occurs in the abdomical cavity. To riths purpose, use may be made of rettall nemess.

and the parenteral and oral administration of cathartics

Pitutini and neohormonal have often proved of value. The local application of heat tends to stimulate intestinal activity. If it is impossible to induce bowel movements by this treatment, the entero tomy of Hichenhain comes up for consideration and, in desperate cases multiple percutaneous punctures of the gut are justified.

By following these principles it has been possible to reduce the mortality in all cases at Koenigsberg from 87 5 to 30 per cent that of peritoritis after appendicuts from 83 3 to 20 8 per cent, and that of peritoritis after perforations of the gastro intestinal

tract from 100 to 42 per cent In the discussion of this report Stahnke (Wuerz burg) discussed the relation of resorption from the abdominal cavity to the sympathetic nervous sys tem. As the vagus and splanchnic nerves bave an influence on the distribution of blood in the abdom inal cavity and the permeability of the cells, they influence resorption Stahnke demonstrated this influence in experiments on rabbits and dogs in which he first used potassium iodide and then the fluorescein test. After section of the splanchnic nerves there was an acceleration of the resorption of the exudate with lengthening of the total duration of the process whereas after division of the vaga there was acceleration for the first few days, but then a retardation Experiments with morphine showed a retardation in so per cent of the animals and an acceleration in the other 50 per cent. When peritonitis was induced artificially the resorption remained unchanged after section of the splanchnic nerves whereas section of the vagi was followed by retardation

A difference was evident in the reactions of the dog and rabbit. In the dog resorption was accelerated after section of the vag as well as after section of the splanchine nerves whereas in the rabbit it was accelerated only after section of the vag! In peritoritis retardation of resorption and marked retardation of excretion followed section of the splanchines as well as section of the vag: It is evident from these findings that in splanchine anexibesia resorption is accelerated in cases without peritorities and retarded in cases without the splanchine and retarded in cases with peritorities.

Voor (Tuchingen) discussed intravenous pitutinn sodium eiborde infusion in postoperative peritonitis. He stated that he bad seen a very favorable effect from the intravenous injection of 500 gm of normosal with four or five ampoules of pitutinn. This treat ment stimulates intestinal activity and bas a favor able effect on the vascular system. The pulse is rearded and the vasomotor paralysis disappears. The toxins present in the body are diluted. Duriests is stimulated. Frequently one large infusion is sufficient, but occasionally must be repeated two or three times. Vogt obtained a cure with this treat ment in 22 per cent of eighty one cases of postoper alive peritonitis. Koerte asked in what manner it was determined that these were cases of general

suppurative peritonitis logt replied that in the fatal cases the diagnosis made during life was confirmed

Keysser (Lichterfelde) discussed colloidoche mical progations. He stated that the hydrogen ion con centration is of the greatest importance since a solution made up according to correct principles in this respect everts a marked bictericidal effect with out muring the tissues. I rom this standpoint the ordinary physiological sodium chloride solution is injurious since by reason of its hidrogen ion con centration at favors the growth of bacteria in the tissues The hydrogen ion concentration of Ringer's solution is considerably better. Leysser referred to an article he published in the Alinische II ochen schrift 1926 No 10 in which he stated that the usual disinfectants are made markedly more effective by a suitable hydrogen ion concentration. The effect of rivanol and of tripaliavane is increased thereby a thousand fold heysser has obtained good results with irrigations of such solutions in general supputative peritonitis. The fundamental solution the elmosid (that is a solution found by electro osmotic methods) is held in readiness and is diluted according to the case and the location in which it is to be used. Of six pritients treated with such a solution all were cured. Two died but one of these was mornhund when hist seen and the other died after six days from bronchopneumonia In the fatal cases the cure of the peritonitis was con firmed hy autonsy

LOEHR (kiel) discussed perforations of the stom ach. He ascribed the failure of operations performed after twelve hours in peritonitis due to perforation of the stomach to the absence of hydrochlorie acid which favors the development of pathogenic bac haumann has rejected this theory calling attention to the fact that streptococci and staphi lococci are present in every stomach but Loche emphasizes that these are factic acid streptococca and a peculiar form of staphylococci which are not amolytic. He proved their non pathogenic char acter by experiments with pure cultures on the moculation of such cultures there was no reaction In the absence of hydrochloric acid, the colon bacilla come from the small intestine and the hamolitic streptococci occasionally from the mouth where they are always present. Lochr attempted to clarify this question by experiments on dogs. If her the infection was not too severe he was able to effect a cure of perstants by singating with a o 3 per cent solu tion of hydrochlone acid. The addition of pepsin did not increase the disinfecting power of the gastine wice

SEELIGER (Freiburg) discussed the treatment of peritoritis The most common variety of the con dition is colon bacillus peritoritis. In its treatment it is necessary to destroy the bacillus. The common Is used sodium chloride solution is not able to do this Ringer's solution normosal and glucose solutions are also meffective. Ether has a bactericidal power but is not satisfactory. However experiments

showed that the colon bacillus is killed by twelfth normal hydrochloric acid solution. Seeliger there fore tried this solution in ten cases of perforation of the appendix using 3 liters to irrigate the abdominal cauty All of the cases except one were cured One patient died of bronchopneumonia realed a complete cure of the personate and absence of colon bacalla

ORATOR (Lienna) discussed the insulin glucose treatment of postoperative shock. He called atten tion to the fact that the number of deaths following operations is greater on the first day than on subsequent days. This may he explained in part by the effect of shock. In shock intravenous injections of from 100 to 150 c cm of a 30 to 50 per cent glu cose solution with the addition of from 20 to 10 units of insulin have proved beneficial. The insulin in ereases the effect. In experiments on animals Orator proved that the sugar blockade of the internal organs is overcome by insulin

GOETZE (Frankfort) discussed peritoneal infusion in the after treatment. Irrigation is frequently done at the Frankfort Chase The procedure is very methodical The regions of the hypochondrium are treated first then the lower structures and finally the cul de sac of Douglas Attempts at secondary sengations and at pentonest infusions in the after treatment have not proved successful Moreover they may break up primary fibrous adhesions and cause a general diffuse peritonitis. Experiments on dogs showed that aseptic as well as non aseptic pentonitis is aggravated hi secondary irrigitions

Lune (Berlin) discussed hypertome autourn There are two protective forces in the perstoneum-resorption and secretion Ol these secretion is the most important. It may be produced or increased by the use of hypertonic solu tions. The best of these is a concentrated gluco e solution II hen a 30 to 80 per cent glucose solution is poured into the inflamed peritoneal cavity a biological and mechanical effect is brought about The former consists in (1) an increase in the antagonism of the less harmful sugar reducing bac terral flora to the various bacteria in the abdominal casity which prevents the bacteria that are active in the abdominal cavity from forming toxins (2) the production of acid products which make the torins innocuous and (3) the formation of evudates and transudates with bactericidal powers. The mechanical effects are an auto irrigation the iso lation of the intestinal loops by the formation of a sugar syrup between them and a dissolving of fibrin (the solvent action of sugar upon fibrin) which favors drainage Luhn recommends the addition of todine to the glucose solution. He has had good results from the pouring of glucose solution into the ab dominal cavity

NORTZEL (Starbruecken) agreed with Airschner that it is impossible to drain the free abdominal cavity hevertheless he still uses a drain in the cul de sac of Douglas since in the first twelve hours it serves to remove any infected irrigation fluid that

may remain in the abdominal cavity. He also still advocates the lowering of the pelvis, but believes that the position need not he as upright as formerly Up to the present time he still has used campborated oil but on the basis of the findings of Seeliger and others, he will hereafter employ solutions of hydro chloric acid instead

Usaner (Koenigsberg) discussed intestinal ac tivity and the portal circulation. The blood in the general body veins moves through a uniform tubular system that is nowhere especially narrowed but the blood in the portal system must flow through a sec ond capillary network that of the liver Whereas through suction the inspiratory reduction of pres sure has a favorable effect on the blood circulating in the inferior year cava this favorable influence is not present in the portal vein. Here it is the motor activity of the intestine that has a favoring influence on the circulation of the blood

In order to demonstrate this Usadel performed experiments on animals in which he measured the amount of blood flowing through the main hranch of the portal vein with the Huerthle hydraulic gau e and determined the effect of peristalsis upon the amount of blood flowing through He found that in normal animals the onset of powerful pen stalsis such as may be produced by irrigating large portions of intestine with hot sodium chloride solu tion results in a threefold increase in the volume of the current. In animals in which a severe peritonitis had heen produced and there was hyperæmia of the splanchmic vessels the extremely retarded blood stream in the portal vein was doubled by the stimu lation of peristalsis Therefore peristalsis of the gut has an undeniable influence upon the amount of blood passing through the portal vein during a cer tain period of time. This explains why in free suppurative peritonitis a decrease in the blood pressure develops only when the intestine loses its automatic activity and meteorism hecomes a prominent complication

Usadel was able to show that even in normal animals moderate inflation of the small intestine with air affects the circulation of blood in the in testine in such a degree that the volume flowing through the portal vein per second is reduced to

In the treatment of free suppurative peritorities it is of the greatest importance to present the patho logical accumulation of blood in the blood vessels of the abdominal cavity According to Usadel's investigations the stimulation of intestinal pen stalsis is an excellent method for this purpose. In other investigations. Usadel demonstrated the powerful penstal is stimulating effect of the sodium chloride infusion to which Hotz has called atten tion This was still further increased by the addi tion of peristalsis stimulating and simultaneously vasoconstricting agents such as pituitrin which has been found very valuable in the Koenigsherg clinic in the treatment of postoperative ileus. Therefore for the removal of the blood from the portal system in peritonitis intestinal activity should he stimu lated by all possible measures among which should be included the infusion of sodium chloride solution

SMIDT (Jena) stated that at the Jena Chinic the decision as to whether irrigation should he done or not is based on two factors, the course of the in fection and the nature of the exudate. In general irrigation and drainage are avoided in peritonitis, especially in cases of serous exudates. In perfo rations of the stomach and traumatic gastric and in testinal injuries bowever irrigation is done especial ly when chyme elements are visible since it is desired to close the abdominal wound primarily. In injuries of the colon strugation is not done Smidt called at tention to the frequency of peritonitis after append citis during epidemics of grippe Pneumococcus peritonitis is very rare only two cases have been observed at the Jena Chnic during the last five

BREITVER (Vienna) discussed typhoid perforation He had the opportunity to observe seven cases in a hospital for war prisoners Operation resulted in a cure in three (43 per cent) The cause of the cure was not the method of operation nor the time at which it was performed (one of the patients who died was operated upon seven hours after the per foration, and one of those who were cured was on erated upon nineteen hours after the perforation) but the patient's condition and the stage of the typhoid at the time of the operation. The patients who were cured were in the third or fourth week of the typhoid and those who died were in the first or second week

HANS (Barmen) stated that he does not attempt to drain the free abdominal cavity but drains the focus of infection Strand drainage is often sufficient to drain a small focus deep in the abdomen The drains need not be bollow. Hans considers good drainage of the hed of the gall hladder as most hecessary For this and for drainage of the cul de sac of Douglas he uses auction drainage

BRUETT (Hamburg) stated that in general the same principles as those mentioned by Kirschner are applied in the Hamhurg Hospital In the course of time the mortality has been reduced from 100 to 30 per cent For irrigation Bruett prefers hyper tonic sodium chloride solution which exerts a good effect on penstalsis. He has avoided the use of by drochloric acid solutions, fearing that they may have an undesirable chemical effect. The prognosis is influenced by the bacteriological findings colon bacillus peritonitis following appendicitis has a more favorable prognosis than peritonitis caused by anterobic streptococci A series of cases of peri tonitis due to bacillus aerogenes capsulatus were ob erved by Bruett in Eppendorf These were char acterized by hemorrhagic evudate with the odor of a corpse In peritonitis following the perforation of a gastric ulcer resections offer a prognosis no more unfavorable than that offered by conservative oper ations In twenty five cases so treated there was only one death

ACCEPTE (Marmen) reported upon the results in 235 cases of suppurative peritorius. The mortality was only 8 per cent when he operated within the first tweek nours but rose to 40 per cent when operation was performed after forty eight hours Rocpek is opposed to the view of Kurschner that the primary establishment of a fistula is to be avoided the has found that without such relief the abdomen frequently cannot be closed. He considers it includes the control of the considers it may be a support of the considers and the perforation operation should be done as soon as possible. In one case of threutening perforation specification of the control of

the perforation took place externally. Purst (Jena) discussed bodogical prophylaxis and treatment. He referred to his demonstration at the previous year is Congress in which he showed the effect of hot ro per cent hypertonic sodium chloride solution. Death in peritonitis is due to a sudden overwhelming of the body with tours. The removal of these outward is therefore of the greatest importance. Hypertonic sodium chloride solution causes a marked transulation. The stronger this is and the more of it that escapes the better. When the armound it is not to be a sudden of the present of while only in the first stage. In the second stage when strong adhesions have already formed in the

abdominal cavity they are not effective

Pust earried out experiments with silicic acid added in finely granular form to the hypertonic sodium chloride solution. These showed that when the silicic acid sodium chloride solution was introduced into the abdominal cavity simultaneously with infected material the dogs remained alive whereas the control animals died. When the solution was injected wenty four hours later than the infectious material a considerable aumher of the animals remained alive whereas the control animals died. The silicit of the silic

FREY (Koenigsberg) reported upon experiments on animals to determine the effect of the normal intestinal contents upon the development and relief of postoperative postanæsthetic and peritonitic intestinal paralysis. On the one band it is possible that when the intestine is full intestinal flatulence may result from the decomposition of the intestinal contents and the intestinal paralysis may he so aggravated by the overdistention of the intestinal wall that there is slight chance of relieving it On the other hand it is possible that a normally filled intestine is less not to become parilyzed than an empty intestine and responds better to peristalsis stimulating remedies after paralysis than an empty ntestine since the normally filled intestine has to its advantage the stimulus exerted by its contents (sensory stimulation of the muco | and distention

stimulus). However the animal experiments showed that the effect of injuries paralyzing persitalism and of remedies stimulating peristalism is independent of the state of fullness of the intesting providing it is within normal limits. The practical conclusion to be drawn from this finding is that empiricies is to be considered the ideal condition of the intestine also from the motor standpoint.

SCHOENNIVER (Vienna) stated that the attempts to influence peritonitis by the introduction of drugs into the abdomen has been abandoned at the you Eiselsherg Clime The only exception is pepsin hydrochloric acid the use of which has been very satisfactory In peritonitis due to perforation of the gastro intestinal tract the mortality was 52 per cent without the use of this remedy and 26 per cent with its use. In peritonitis after perforation of the appendix the corresponding mortalities were 25 and 8 9 per cent and in peritonitis due to perforation of the bdiary passages 50 and 0 per cent. The total mortality without the use of pepsin hydrochlorie acid in 164 cases was 34 7 per eent whereas with its use in 110 cases the mortality was 12 7 per cent This shows a reduction of the mortality to almost one third The postoperative course was also im proved by the pepsin hydrochloric acid. In eight of the fourteen fatal cases no peritonitis was found at autopsy

NERRORN (Elberfall) would add to the group of gonococcal and pneumococeal pentonits the pentonits of infants in which more conservative treatment is indicated. He emphasized the unabovable prognosis in these cases. He was unable to save the life of one of the children hy operation whereas ince he adopted the more conservative plan for children under 2 years of age he has achieved hetter results. He advocates early operation for other cases and is in favor of education of the lairty with regard to its

advantages

RESCURE (Greifwald) gave the reason for the different stand of Pel Leaselen which was mentioned by Jarschner. He stated that breadse of the un favorable results obtained in general pertinouts a number of patients who were brought to the clime in a very poor general condition or apparently morbland were treated eonservatively. To the sur prise of the clime stiff all of these patients recovered Therefore conservative treatment has become the routine treatment in Pels Leusden's cases.

Of 138 patients with general suppurative peritomits marty nine (71 per cent) died Of 106 who were operated upon eighty (75 per cent) died whereas of thirty two who were treated conservatively inneteen (50 per cent) died. From the latter should be deducted seven patients who were brought to the bospital in a moribund condition. When this is done the mortality in the cuses the result that is done the mortality in the cuse of the cent The mortality in cases operated upon on the first day was 33 per cent that in those operated upon on the third day or per cent and that in those operated regard to the kuhn method of pouring hypertonuc glucose solution into the ahdominal cavity. Reschke claims that the hopes raised hy it have not been realized. It was followed hy recovery in the early cases but failed in the late cy es.

KOERTE called attention to the fact that the views presented controvert everything that has hitherto heen believed hy surgeons to he correct His own experience favors immediate operation after the establishment of the diagnosis

RESCHEE stated that the Greiswald Chine is also in favor of early operation in cases recognized early and recommends conservative treatment only

in late cases

ANSINN (Demoin) remarked that the Greifswald procedure with its conservative treatment exerts an unfavorable influence in the vicinity of Greifswald as the patients and physicians are reluctant

to resort to operation

SF. MERTH (Senftenherg) emphasized that there are cases in which the formation of an intestinal fistula is indicated and that therefore the routine avoidance of this procedure in the treatment of peritorities is incorrect. He stated also that be observed the percutaneous puncture of the intestines for the first time at the Rehn Clinic. As he was convinced of the good effect of the procedure he has used it since

KOERTE stated that he fears infection as a result

of such punctures

In conclusion KIRSCHNER emphasized that he cannot approve of the attitude of Pels Leusden which he regards as a return to the nihilism of thirty years ago He sees no reason lor making the peri tonitis of infancy an exception. He expects no improvement in results from Kuhn's glucose olution (lympb lavage) and he is skeptical also regarding the value of the introduction of drugs into the ab dominal cavity. In typhoid perforation the most difficult matter is a timely diagnosis. Kirschner be lieves that the perforation always occurs in the same stage of the condition For perforations of the stomach he considers conservative measures safe If the formation of an intestinal fistula is necessary he would prefer to do it on the following day under local anæsthesia. On the other hand he has seen good results in several cases from percutaneous puncture of the intestine and therefore favors its use in very severe cases STETTIVER (7)

Pribram B O Mesenteric Lymphangeit's (Leber Lymphangiti mesenterialis) 1rch f & n Chir 19 6 cd 589

In numerous cases in which operation is performed for chrome appendictits only very slight pathological changes are found in the appendix whereas the lymph channels and glands of the mesenterioleum and mesenters show both the macroscopic and microscopic evidences of an inflammation which has subsided

On the basis of this observation the author discusses Virchow's suggestion that the infection may progress from within outward layer by laver, without leaving any evidence of a subsided infection in the intestinal wall

The hypothesis that in some cases the intestinal wall may show scarcely any inflammatory reaction when hacteria pass through it whereas the lymphatics react with distinct signs of inflammation is based on a varying immunity of different kinds of theses.

Inflammatory processes in the mesenteric glands, especially those associated with shrinkage, may

cause marked symptoms

In order to prevent the extension of the inflam mators process of acute appendicitis into the lymph channels and glands and the symptoms dependent upon such involvement Pribram urges early operation

Another proved cause of mesenteric lymphangeitis is coprostasis. During the war the author noted inflammatory changes in the mesentery in association with megacolon a condition which is very common in Russia. Hoo, (Z)

GASTRO INTESTINAL TRACT

Roenig F The Treatment of Gastric Ulcer (Zur Therapie des Magengeschwuers) Muenchen med Wichnsicht 1926 Urtill 51

Since in a period of four years 235 cases of ulcer were operated upon in Koenigs clinic and in a period of seven years only 107 cases were referred for operation by the medical clinic, it is evident that only a small precentage of the cases of ulcer which come to operation are sent from the medical clinic

Motamiz attributes gastric ulcer chiefly to a continuous spasm of the gastric musculature one cause of which is the nervous constitution to which Berg mann has called attention On the basis of research carried on in his chinc by Stabiale, Koemig concludes that the nervous influence causes a gastrits which constitutes the basis of the ulcer

Whereas Koenig formerly operated only in cases with the classical ulcer syndrome the indications for operation recognized by him have since been hroadened. In some of the cases with the classical syndrome an ulcer was found, but in others only adhesions. One group of patients were relieved of their symptoms by liberation of the adhesions whereas another group returned with the same symptoms some with ulcer and others with new adhesions.

In cases without proof of ulcer in which resection was done at the request of the internist the specimen in every case showed chronic gastritis. On the hasis of this finding. Koenig agrees with Morawitz that there is an ulcer schenes without an ulcer According to the statistics of the medical clinic, only 60 per cent of ulcers can he cured hy medical measures, and koenigs own experience has shown that in a large number of cases the symptoms cannot be relieved without operation.

Koenig formerly, favored gastro enterostomy but now practise resection because investigations made over a period of years by Dahl showed that in many croses the good early results of gastro enterostomy do not persust and because experience has demon strated that jastro enterostomy stelf may be harmful koenig reports two very instructive cases of peptic ulers.

In cases of perforated ulcer at the pyloms resction is bast if the operation is done in the first twelve hours. In cases of ulcers at a dutance from the pyloms gastro enterostomy is unnecessary, keeing does not deny that an ulcer can be bealed by pastro enterostomy, but the considers this operation only an emergency procedure. The mortality of resection decreases with increasing expenience of the surgion. Koeing uses Reichel's method of resection.

In conclusion Loenig emphasizes the importance of the proper postoperative care. He states that chronic gastric ulcer is a good example of an ailment in which inturnal medicine alone is often insufficient and the cooperation of the internal and surgeon is necessary for a cure.

Stainke (Z)

Lindboo E Experiences with the Resection Method of Pólya in Ulcer of the Stomach and Duodenum (Lifahrungen mit Iolyas Re-eltion methoile bei Ulcus ventriculi und duodeni) Zentralbi f Lhr. 1036 hu 1145

This article is based upon 120 cases in which an operation was performed for uker of the stomach or duodenim In 100 cases the operation was done according to the method of Polya In seventy one the appendix was removed at the same time it was always found to show a pithological change. In six cases the operation was undertaken becuss of perforation or harmorrhage. In ninety of the ros other cases a retrocolic anastomosis was done and in eleven an antecolic anastomosis. There were four detths

In a series of nincty cases treated previously a subsequent examination showed a cutre in 90 per cent and improvement in 44 per tent. The mortal ity was no greater than that of simple gastro enterostomy. Incoordinate of the later development of carcinoma did not occur. For the prevention of subsequent ulcers it is essential that an extensive resection be performed since by the removal of the glands secreting hydrochlone and the horic causes of new ulcers hyperacidity and hyperchlorhydria are decreased. The technique of the operation is simple.

The extent of the resection must be determined from the degree of hyperacidity Anacothy is better than too great acidit. Gastro enterestions should be reserved for cases in which resection cannot be per formed. In these cases also the plorus should be closed off as inghit as possible. Peptie utler: developed in three of the cases. The plorus should be because the resection was not sufficiently extensive because the resection was not sufficiently extensive. Dearer J B Intestinal Obstruction (nn Surg

Deaver attributes the present high mortality in cases of obstruction of the intestines to the recognition of the condition and the administration of purgitives. An early disaposis requires careful in spection auscultation and palpation of the abdomen and a rection of vaginal extrumination. The possibility of intestinal obstruction should be borne in mind in every case with acute abdominal symptoms in which the scar of a hypercolomy is found. Morphine should not be given before the examination. While purgatives are contra indicated attempts to give relief by enems are unstituded.

Intestinal obstruction occurring three or four days after an operation for acute perforative or suppura tive appendicties is sometimes difficult to differentiate from secondary abscess with circumserible peritorities or beginning diffuse peritorities. The most obsarcations and signs of intestinal obstruction not associated with secondary or residual abscess of diffuse peritorities are intermittent conciving name with stormy peristiles inability to pass gas and persistent younting. In the presence of such

signs. Deaver operates at once.

Paralytic distention of the bowel with regurgitant
comiting with or without hiccough and the absence
of characteristic pain simulates intestinal obstruction
and late peritoritis so closely that the di Ferentiation

se exceedingly difficult.

The condition found is usually leakage of intestinal contents due to causers such as ulcerative perforation of the appendix or of a coil of bowle which at op ration for strungulated herma was thought to be viable enough to recover and was the refore returned to the peritoneal causty the separation of a gratin epignostomy or entero enterostomy the partial or complete opening of the duodenal stump after a subtotal gastretom, the escape of duodenal contents after existion and suture of a duodenal or casting ulcer or the closure of a preferred ulcer

the bindder
In all of these conditions the symptoms and signs
are much the same including abdominal pain
rigidity tenderness slight distention which is more
or less general but most marked at the site of the
lesion inability to pass feces or grs vomiting and
sometimes, but cough

without gastro enterostomy or the leakage of bile after a cholecystectomy or of urine from accidental

incision of the ureter or intraperitoneal rupture of

Deaver regards it as better to operate and not find a lesson than to wast and then operate and find an obstruction which calls for extensive resection. In every case of seute obstruction there is a pertinents which in the early hours of the condition. It is that the extraction there is a pertinent of the extraction that the pertinent of the condition is the extraction of the extraction o

examination are found to contain material from the upper intestinal tract he operates immediately

In an occasional case of postoperative acute ob struction of the intestines the condition is attributable to the presence of drains Therefore the proper disposition and careful charting of drains is essential

The differentiation between postoperative para lytic ileus and obstruction from kinking is difficult When Deaver is not sure of the advisability of im mediate operation he prescribes anatomical and physiological rest and if improvement does not occur in a few hours he operates. In his experience jejunostomy has not been satisfactory in cases of paralytic ileus. In mechanical ileus it is of value if it is done early, but even in this condition a side track operation is preferable

In chronic obstruction operation need not be per formed immediately unless an acute exacerbation is superimposed on the chronic condition obstruction should be treated for ten days by gastric layage nourishment by mouth the administration of normal saline solution with glucose and whiskey by the Murphy drip method the application of an ice bag to the abdomen and hypodermic injection of morphine to relieve the pain. During this time a study of the blood chemistry and renal function should be made and circulatory defects corrected or at least treated Before operation the intestinal tract should he cleared by the administration of mild purgatives high enemata of sweet oil, and occasion ally by cacostomy

Chronic obstruction Deaver believes is often of carcinomatous origin While \ ray examination is important it is not infallible. Visible peristalsis producing the ladder rung abdomen is positive proof of the presence of chronic obstruction Obstruction of the right half of the colon is usually associated with constipation and obstruction of the left balf of the colon with diarrhea The decision as to whether the operation should be performed in one or two stages can usually be made only after the abdomen EMIL C ROBITSHER M D is opened

The Treatment of Acute Mechanical Koerte W Occlusion of the Intestines (Zur Behandlung des akuten mechanischen Darmverschlusses) 4rch f Verdauungskr 19 6 xxxx 83

In the author's opinion paralysis of the intestine should not be called paralytic ileus as the term comes from the Greek eilea meaning to tie up into knots to twist into a tangle

It is only in the chronic forms of ileus that there is at first only a stasis of the bowel contents. This leads to injury of the howel wall secondarily as the result of distention. In such cases an enterostomy may be of benefit

In acute mechanical occlusion of the intestine there are circulatory disturbances which if the obstruction is not removed may be expected with cer tainty to result in injury of the wall of the howel The injurious action of stasis decomposition of the bowel contents, and resorption of toxic materials

occurs only in the further course of the condition Spastic occlusion of the intestines which cannot vet be differentiated chaically with certainty from acute mechanical occlusion and is therefore often first recognized at laparotomy, is rare and con siderably less dangerous than acute mechanical occlusion of the intestines

The author divides cases of acute mechanical oc clusion with vital indications into those of constric tion of the intestine by bands those of incarceration of the intestine in an intra abdominal peritoneal sac or defect those of volvulus and those of invagina tion Gall stone ileus must also be included in this group since at the point where the gall stone occluded the intestine in the author's cases there were frequently deposits of fibrin on the serosa and in two cases perforation occurred To this group he long also cases of kinking of the bowel since in these there occurs a mechanical injury to the howel at the point of kinking In all of these cases the condition can be benefited as in cases of incarcerated external herma only by operative removal of the constriction

In only one of the author's cases of invagination that of a child who came under observation very early, did the condition correct itself spontaneously the intussusception disappearing with a gurgling sound during examination by palpation. As a rule we cannot count on the loosening up of a constrict ing band the untwisting of a volvulus, or the pass ing of a gall stone without surgical assistance. The results of operation are so often poor because the patients so frequently come to operation late. The earlier the operation is performed the better the results

Of 230 patients operated upon for acute mechani cal obstruction of the intestine 140 were females The higher incidence of the condition in the female is explained by the frequency of inflammatory proc esses of the uterus and adnexa which lead to the formation of bands and adhesions. The total mor taht, was 43 2 per cent-44 3 per cent in the cases of females and 40 1 per cent in those of males

At the outset of the condition pain may be absent but the cessation of intestinal evacuation increasing comiting flaccidity of the abdominal wall and visable, palpable and audible peristalsis of the intestine ahove the point of the occlusion are infallible signs The diagnosis of ileus can and must be made without the assistance of the A ray Wahl's sign a pal pable incarcerated loop which has become distended with gas is not a certain one except in volvulus of the sigmoid flexure since the point of incarceration hecomes covered by the distended loop above it and therefore cannot he palpated \ \ \ \ omiting occurs later in intestinal occlusion than in peritonitis Intestinal occlusion that has advanced to the stage of perito mitis often cannot be differentiated from primary peritoritis hut the indications for laparotomy are the same in both conditions. When peritonitis has already developed the prognosis of operation is un favorable When there is intestinal paralysis, the prognosis is very grave

The character and location of the obstruction cru be determined before operation in only 1 fix excess and even in these only approximately. In agnation is usually recognized before operation because it occurs chiefly in children and is characterized by the appearance of a visuage shaped tensor and tenessius with scrinty evicuation, of blood and mucus. Volvulus of the signmod flevare was recognized in several of the author's case, from the pil public loop tensely filled with gas which extended up into the epigastrium. In cases of gall stone deus and adhesions due to inflammatory diseases (ap pendicuts parametritis) the history lends at least to 1 probable diagnosis.

In the author's hospital cases the mortality was 3,5 per cent whereas in his private cases it was only 20 per cent. The difference was due primarily to the fact that his private gatherist came to operation eather. Since in both groups there was a decrease in the mortality in the course of time it is to be assumed that improvement in the operative technique was a factor in the improvement of the results. The patients age and resistance and the character of the obstruction also play a part in determining the results of operation. Among, the patients under 1 year of age the mortality was 60 per cent and in those over 60 years it was 58 per cent.

The factor of chief importance in the outcome of operation is the time at which the operation is performed. In the cases operated upon on the first day the mortabity was only in per cent whereas in those operated upon on the second third and fourth days it ranged from 38 to 33 per cent in those operated upon on the fifth day it was 50 per cent and in those operated upon on the minth day it was so per cent and in those operated upon on the nighth day it was

100 per cent

skin surface

With regard to the character of the obstruction the Muthregard to the character of the obstruction in periodeal results were obtained in cases of incarceration in periodeal receivers of the control of

At operation the author makes no incision from to to to moign in the middine beginning some what above or at the umbilicus and extending it downward toward the symphysis. In acute vital intestinal occlusion an enterostomy without loosen ing of the obstruction is not spificent After the abdomen is opened the intestinal loops protruding out of the abdominal cavity are enveloped in hot comprese is wet with physiological sail solution and are well protected aguinst contrict with the iodine

A search is then made for the point of obstruction by following the distended loops downward or the collapsed loops unward. Creat care is taken to awad terring the intestine at the point of the constriction when possible the endangered loop is rused out of the abdominal cavity and carefully packed off

The emptying of the over filled intestine of its decomposing contents is of the precises importance. This is accomplished by introducing a thick rubber tub through an incision in an intestinal loop which has been taken out of the abdomen left through a hole in a large pince of sterile water proof cloth and surrounded by givine. During, the process of empty ing the assistant strips the intestine down toward the op mang beginning with the highest loops. The emptied and sutured intestine is then washed off with physiological salt solution at a temperature of op degrees and gently replaced in the abdominal cavity. If the intestine contracts when hot salt solution is sorulated on the salt solution is sorulated in the solution is sorulated in the solution is sorulated on it it is wishle.

The intestine emptind of its contents quickly resumes its normal function. Injury to the abdominal contents by this method of relieving the intestine is not to be assumed since in eighty, three cases so treated recovery resulted in 65 3 per cent. Gan grene of the bow of renders the progno is considerable.

less favorable

In twents seven cases of intestinal resection for acute occlusion a cure resulted in only 27 per cent. In some cases removal of the obstruction as if precautionary in the obstruction as a precautionary measure but those procedures were not satisfactory and in everal instances resulted in fistular which required even more radical operations for their closure.

In conclusion the author states that the most important factor in the improvement of the results of treatment is early operation. As regards the operative technique itself he states that improvement in the results is to be hoped for in methodical emptying of the over filled intestine in an otherwise conservative and faultlissely asseptic procedure.

Hinte (Z)

Schmieden Precancerous Diseases of the Intestine Especially in Polyposis (Pracancerose Erktankungen des Datmes insbesondete bei Polyposis) 50 Tag d deutsch Ges f Chir Berlin 1936

Since the best treatment of carcinoma; carly operation it is essential to recognize precancerous conditions. In his studies of polyps the author discovered a characteristic form of cell which he designates as a precancerous cell. He distinguishes three types of polyps (i) those which contain normal cells (a) those which contain precancerous cells and (s) those in which true cancer nests are present

According to the findings of the investigations reported it is incorrect to regard polyps as barnless structures. A specimen should be removed with the proctoscope from every polyp and subjected to care ful microscopic examination. Schmieden has known of instances, in which the pedick contained also

lutely harmless tissue, whereas further up charac teristic precancerous cells were found and in other

areas definite cancer nests

The number of secondary polyps which may con tam pre-ancerous cells is much greater than was formerly believed. In some cases the \mathbb{\text{ray}} picture shows them distinctly but in others only an exploratory laparotomy will reveal their extent and the necessary extent of operation. Roentgen therapy is of little avail in these cases, extensive resection is indicated.

The method of spread of the polyps sheds new light on the question of recurrences and the origin of intestinal circinoma. Since 60 per cent of polyps undergo malignant degeneration, it seems evident that the cancer has its origin in irritation. The preliminary stages are similar to those assumed by Konjetzny for cancer of the stomach

In the discussion of this paper, JUENGLING 'Luebingen' reported upon a family followed for several generations, many members of which had either a polyposis or a carcinoma of the rectum

When Anschuetz inquired whether Schmieden's investigations covered solitary polyps as well as polyposis, Schmieden answered in the affirmative

Orator (Vienna) reported that he had observed malignant degeneration of papillomata also higher up in the intestinal tract

STETTINER (Z)

Harrington S W Traumatte Retroperitoneal Rupture of the Duodenum Traumatte Intra peritoneal and Extraperitoneal Rupture of the Duodenum Strangulated Meckle's Directic ulum in the Right Femoral Canal Solitary Non Parasitic Cyst of the Liver Surg Clin N Am 10 6 V1 1132

Harington reports two cases of traumatic rupture of the duodenum in one of which the rupture was retroperationeal and in the other both intraperationeal and extraperationeal. In neither case was there any evident injury of the abominal wall but in the first one a small rupture of the fascia, muscle and perationeum was discovered toward the close of the operation. Both patients were in a state of shock and neither recovered

In the first case a large creptant harmorrhage mass was found in the root of the mesentery and over the second portion of the duodenum at the site of a linear opening about 5 cm in length through which food and duodenal contents were draining, into the retroperitioneal tissues Convalescence was fairly favorable until a duodenal fixtuia developed

In the second case there was no pain so long as the patient was not disturbed, but palparation revealed marked tenderness in the right upper quadrant. This patient was seen almost immediately after the accident but the leucocytes numbered 22 000 in comparison with nearly 28 000 in the first case. I hirst was the chief complaint. Bile stuned blood mucies and food particles were found in the abdominil civits but exploration reveiled a small perforation on the autorn wall of the second part.

of the duodenum and a considerably larger per foration in the posterior wall. There was also considerable traumatization of the intervening tissue. The liver was ruptured in two places and the spicen is several. For six hours after the operation the condition was fairly good, but the pulse and tem perature rose and death occurred after twelve bours.

The author attributes injury of the duodenum which occurs in 10 per cent of the reported cases of traumatic rupture of the intestinal tract, to the fixed position of this portion of the intestinal in front of the spine. The early leucocytosis is probably attributable to both the intra abdominal hæmor rhage and the contamination.

Moffitt H C The Medical Aspects of Duodenal Ulcer Canadian M Ass J 1926 XVI 1044
Starr F N G The Surgical Treatment of Duo

Starr F N G The Surgical Treatment of Duo denal Ulcer Canadian M Ass J 1926 vv1 1051 Dickson W H The Radiological Aspect of Duo denal Ulcer Canadian W Ass J 1926 vv1, 1053

MOFFITT states that today the surgeon and untermst see the main problems of duodenal ulcer from a common viewpoint. Certain factors and phases in the ethology, physiology, and pathology of the leston remain obscure, but definite knowledge has been gained as to the course, symptoms, and treatment

Ulcers may be produced experimentally by me channeal, chemical, or thermic irritation, by resection of the vags or splanchnics or of the adrenals or para thyroids, and by the local or intravenous injection of chemicals, bacteria, or hacterial or metabolic toxins

Many ulcers in man heal promptly without symp toms. The formation of the chronic "clinical" ulcer requires definite injury to the cells of the mucosa and the action of certain forces inhibiting repair of the damaged tissues. Ischemia due to excessive and persistent local muscle spasm may play a part

The profound influence on the digestive mucous membrane of toxins or hacteria reaching it by way of the blood stream has been proved conclusively by experimental and chinical evidence in recent years

Rosenow says that streptococci, irrespective of their source, exhibit, when of a certain grade of virulence, an affinity for the gastric mucous mem brane and when injected intravenously may cause an ulcer of the stomach or duodenum.

The bealing of an ulcer is inhibited by many forces among which are fatigue, exposure to cold, long continued nervous strain and worry, chronic infection and bad habits which lower the general resistance McCarrison noted the development of both gastric and duodenal ulcers in monkeys and guinea pigs fed on diets deficient in vitamines Although ulcer may be formed and may persist

noun gastric and diodenal ulcers in monkeys and guinea pigs fed on diets deficient in vitamines Although ulcer may be formed and may persist with absence of free acid or even with achylia it has been recognized since the time of Celsus that peptic digestion plays a large part in keeping active the so called chronic or clinical ulcer.

Duodenal ulcer is a common lesson at least six or eight times as common as gastric ulcer. Multiple ulcers are recognized with inereasing frequency in the extension of the influmntion without perforation may result in abscess or in adhesions. Abscess is rare but adhesions are exceedingly common Congenital abnormalities of the duodenum may be found associated with ulcer.

Among the most important completations are stenosis of the plong from spans infilmmentory extens and the formation of firm sear tissue. The most striking clinical feature of doudenal ulcer is periodicity. A carefully taken history will reveal this in from 80 to 60 per cent of cases. Early symptoms may be unnoticed or obscure or so abrupt and evere as to render the picture confusing but as time goes on cycles of activity are marked by the most chiracteristic events and succeeded by intervals of latency in which the patient may be vible to eat an kind of food without any disturbances

The lesson is uncommon in children and young adults. This may be explained by the greater free dom from infection, nervous and physical strain and bad habits and the greater activity of the defense mechanism such as the retirulo endothelial system in

the young as compared with the old

Perforation when acute is practically always the upture of an ulcer on the anterior wall. There seem at times to be epidemics of acute perforating ulcers. Vomiting may be an occasional sign but when it is persistent should suggest another diag noise or complications especially obstruction. Yaz examinations are invaluable and should be made to supplement the clinical investigation. Negative evidence should lead to a careful review of the clinical diagnosis. I voessive secretion of high acidity food terminatis from the night before and sarenes or vosits in large numbers in the sediment indicate obstruction of low or high degree.

In the differential diagnosis the periodicity of the pinn its durinal variations and its modification by various factors are of great significance. Murked changes in the familiar sequence of symptoms must indicate complications such as obstruction and ad hesions or of the development of some other ab dominal condition. Frequently the onset of symptoms occurs soon after an abdominal operation As a rule the patient with ulcer has had insufferent

medical treatment

On the basis of our present knowledge the treat ment aims at the removal of causes of nerve irritation and muscle spasm, the control of infection is fir as possible and the neutralization of gestine juice corrosion. In preventive treatment regulation of the patient is habits care of the nervous system frequent meals the judicious use of drugs such as alkakes bromudes and atropine are indicated.

It is nearly unanimously agreed that in the early stiges of the condition medical treatment should be given a trial. The initial treatment should be thorough Ambulatory treatment may alleviate the symptoms but is less apt to effect a cure The experience of surgeons indicates that partial perforation occurs in about 20 per cent of duodenal ulcers. The pancreas may be deeply eroded and chronic pancreatitis may result. The author knows of two cases in which diabetes developed. Free perforation into the personnel cavity is prevented in most eases by the omentum or adjacent viscera.

The pattent may complain of pain of a griving burning or boring character which frequently be comes sharp and cramp like. This pain may radiate to the right or left or to the back but as a full most severe in the up? mid abdomen Once established it exhibits remarkable uniformity regularity and with Volonikan has termed punctual

The importance of a careful study of the sequence of events in a twenty four hour p riod during the active stage has been particularly emphasiz d by Sippy and Lusterman The condition is character ized by absence of symptoms when the stomach is enipty the occurrence of pain from one to three hours after the ingestion of food the relief of the pain by food ats recurrence in greater severity from two to three hours after the midday meal and its relief when the stomach b com empty or wh n food is taken. The cussation of the pain after the administration of alkali s vomiting and gastrie lavage its modification by test and compresses its aggravation by certain foods exposure to cold and nervous and physical strain ofer important diag nostie aid li emorrhage is much less frequent in private patients than in ho pital patients probably because in the former the disease is recounted earlier and the complications are therefore fewer The most rational scheme of medical treatment

The most rational scheme of medical treatment vet evolved for duodenal ulcer is that of Sippy. Its principles are sound and its results encouraging We have learned the danger of the excessive administration of alkalies especially in cases of re-

tention or consident renal or hepatic disease Indications and contra indications for operation should be studied carefull, by both the internal and the surgeon since as Eusterman has noted poor results from operative treatment are due more offul to a careface selection of cases than to poor surgery It is the duty of the internals to prepare the patient properly for operation. Evirue transfusion control of alkah dosage the administration control of alkah dosage menusurus which have contributed enormously to favorable operative results

Surgeons have learned to appreciate the value of postoperative treatment. It takes weeks or months to heal a chronic ulcer even after gastro enteros tomy

STARE states that duodenal ulcers following severe burns are becoming very rare because of the improved treatment of burns by the immediate application of 1.5 per cent tannic acid solution direct blood transfusion to combat shock and exanguina tion transfusion

Perforating duodenal ulcers must be recognized and operated upon early Cautery or kinfe excision with closure of the opening is sufficient. In cases of penetrating ulcers with marked inflammatory rection it is necessary to do a posterior gastro enteros tomy in addition to the cauterization of the ulcer in order to keep the patient from starving to death. The gall bladder and appendix should be examined for infection. Duodenal ulcers associated with active himographic production of the properties of the cases 5 c cm of calcium chloride and if necessary a transfusion may be given

In cases of uler of the antenor surface of the duo denum Starr cuts the pylorn ring and performs some type of pyloroplasty. In cases of large callous ulcers producing complete obstruction he does a partial gastrectomy. The duodenum is closed and an anterior Polya or a posterior gastro enterostomy is

After the operation the patient is watched for the development of alkalosis or acidosis and is treated accordingly. When the patient is discharged from the bosoital he is given instructions as to diet and

general hygiene

Dickson calls attention to the fact that gall bladder disease carcinoma of the pictors appendicitis, renal calculus tabes, duodenal ileus and abnormalities of the ligament of Treitz may give rise to symptoms identical with those of duodenal ulcer. In such cases a careful x ray examination is of the greatest importance in the diagnosis.

The competent roentgenologist is able to make a correct diagnosis of duodenal ulcer in from 9; to 9, per cent of the cases About 90 per cent of duodenal ulcers occur in the first portion of the duodenaum the caput duodenalis, a fact of great advantage to the roentgenologist as this portion of the duodenam fills better and remains filled longer than the other

portions

There are two methods of examination. The first depends almost entirely on the use of the fluoro scope roentgenograms are made only for record. This method is used throughout Europe and in some American climes. The second method consists in the making of serial roentgenograms as suggested by Cole. In this procedure no screen is used. The number of roentgenograms made ranges from thirty five to fifty. Dickson has combined the two methods After screening the patient in the upright and horizontal positions be makes from twelve to fifteen plates.

Deformity of the caput of the duodenum is the direct evidence sought. This is caused by the crater of the active uleer by fibrous or scar tissue in a chronic or recurring uleer, and, in some cases by spirsin. The most common deformity caused by an uleer is the formation of the clover leaf cap. A crescentic or bud like projection is often observed protruding from the lesser curvature side of the ciput. This is due to the crater of the active uleer in which the mucosy and part of the muscularis are destroyed and the defect is filled with the barrium

Chrone duodenal ulcer may produce so much scar issue that the caput is virtually obliterated and cannot be visualized. In such cases we must depend to some extent on indirect evidence such as hyper peristaliss and retention to establish the diagnosis. In cases of chrome perforating ulcers due to localized peritonits. Y ray examination will reveal an accessory pocket. The outline of the pocket is usually irregular and the firstulous tract leading to it may or may not be visible. A duodenal diverticulum may be confused with an accessory pocket. The latter however is usually smooth and round and contains no gas or secretion.

Deformity of the caput is often caused by ad hessons of gall bladder origin. In such cases the caput will be found somewhat angulated upon the pyloric end of the stomach by the drag of the ad hessons. The dilated gall bladder itself causes de formity of the caput but can be differentiated by the fact that it presents a smooth round pressure

defect in the latter

The indirect signs of duodenal uleer are hypertomicity with increased peristalss and decreased emptying time in the non-obstructive or early obstructive cases and decreased peristalss with in creased emptying time in cases of long standing obstruction Reflex duodenal spasm may be excluded by the use of antispasmodies or by keeping the patient on a milk diet for several days preceding the examination Mexice R Hoon MD

Mayo C H and Powell L D The Colon as a Urinary Receptable Surg Clin N 4m 1926

Mayo and Powell discuss transplantation of the ureter into the sigmoid and report three cases in which the operation was performed by Coffey's method. They believe that the operation might be widely employed in cases of severe injury and loss of substance or control of the sphincters, as well as in cases of cancerous growths of the bladder.

Altogether they have seen about 100 cases of exstrophy of the hladder. In six cancer of the bladder had developed. The operation of transplantition should not be performed before the age

of 5 years

The first case reported was one of epispadias in a hoy aged 13 years. The left ureter was trans planted thirteen days after the right ureter. Rectal

control of the urine was excellent

The second patient was a woman 27 years of age Exstrophy of the bladder was complicated by severe hydronephrosis of the left kidney with obstruction of the left ureter. The right ureter was transplanted into the sigmoid with a good result. More than year later the patient complained of pain in the left sade of the abdomen. As the left kidney was found to be functionless it was excised with its ureter. In this case the symphysis pubs was missing and hoth uterus and vagina were double.

In the third case that of a woman aged 30 years exstropby of the hladder was associated with right

into the blood by transplantation of the common duct into the inferior vena cava?

What relationship is there between the clot

ting elements and cholesterinæmia bilirubinæmia bile acids and liver function?

The thrombin and fibrinogen were determined quantitatively After obstruction of the common duct there was a marked and very rapid decrease in the thrombin. The activators disappeared from the blood in from three to four weeks but the fibra nogen content showed little change The cholesterin increased to four or five times the normal in the first three or four weeks but then decreased The bili rubin content of the blood did not increase progressively but receded at the end of the fourth week whereas when the obstruction continued the me chanically and chemically changed liver cells produced progressively less bile and pigment

It was impossible to determine the quantities of bile acids that circulated in the blood of the cholemic animals but it is certain that the smaller the quan tity of bile acids excreted into the blood the longer

the icterus persisted

If the bile and bile constituents circulating in the blood have a direct influence upon the blood or blood vessels this effect would be expected when the bile constituents accumulate in the blood Such however is not the case. Disturbances in the clot ting system are most apt to occur when the function of the liver is reduced. This is in agreement with the fact that the intravenous injection of bile and the implantation of the common fluct into the in ferior vena cava caused no demonstrable disturb ance in the clotting process. Liver insufficiency in obstruction of the common duct is manifested by a distinct disturbance of the function of urea forma

On the basis of his clinical investigations the author recommends the quantitative determination of thrombin in cases of icterus in which operation is contemplated The procedure which is simple furnishes valuable information with regard to the condition of the clotting processes and when the activators are deficient makes it possible to increase the thrombin elements in the blood by the introduction of normal blood WILDEGANS (Z)

Pancoast II k The Roentgenological Diagnosis of Liver Abscess with or without Subdia phragmatic Abscess 1m J Roenigenol 1926 TV1 303

Having had the opportunity to examine an un usual number of cases of hepatic abscess during the past three years and having failed to render an exact diagnosis in many of them the author made a study of all new cases and of cases of other conditions which were difficult to differentiate. As a result of this study he believes that he has evolved a process of reasoning and interpretation which makes the diagnosis of liver abscess possible in most instances and renders the roentgen examination of value to the surgeon

In the type of cases discussed the important ave nue of infection of the liver is the portal circulation or the biliary ducts A correct history of the case is of paramount importance since upon it must be based the diagnostic procedure and the interpreta tion of the findings Roentgenoscopy is absolutely essential Single flat bedside films have little diag nostic value Pneumoperitoneum may be of value in some instances but is entirely unnecessary and would be impracticable in serial study which is so often required and might be very dangerous Numerous cases are cited in detail with roent

genograms illustrating the findings ADOLPH HARTLAG M D

McIndoe A II Intrahepatic Lithlasis Associated with Multiple Internal Biliary Fistulæ Surg Clin N Am 1926 v1 1233

McIndoe reports a case of intrahenatic chole lithiasis a sociated with an internal biliary fistula hetween the gall bladder and colon and the duo denum and cystic duct On analysis the stones proved to be bilirubin cholesterin stones containing no The terminal condition was acute sup purative cholangeitis with multiple abscesses in the right lobe of the liver. The patient had never suf fered pain although the ducts were crammed with stones and until the onset of the scute cholangertis had been only slightly joundiced

Duchlnosa S I Tumporary Climping Off of the Hepatoduode al Ligament for Bloo lless Oper ations on the liver (Ueber 1e nparaere Abk! m mung des Ligamentum hepato duode sale fuer blutlose Operationen an d r Leber) I estnik chir s pograniensch oblast j 1925 \ 34

From experiments on dogs with regard to the ef fect of clamping of the hepatoduodenal ligament the author draws the following conclusions

2 Dogs cannot survive one hour a stagnation of the blood in the portal system

2 After clamping for five minutes the liver be comes quite exsanguinated The method is there

fore a very good hemostatic procedure

3 After the clamping the blood pressure sinks especially in the first five or ten minutes. The degree of the decrease and the return to normal vary ereativ in different animals

4 If the clamping period exceeds thirty five minutes the vasomotor apparatus is severely in nured

The chief cause of the fall in the blood pres sure with functional disturbances of the central and peripheral vasomotor apparatus seems to be the clamping of the portal vein. The isolated clamp ing of this vein is followed by a less marked fall in the blood pressure than the clamping of the entire hepatoduodenal ligament but is not sufficient for a bloodless operation

6 Shutting off of the arterial current lowers the blood pressure by half. A decrease is noted also when the common duct is clamped

7 Subcutaneous injections of sodium chloride solution do not prevent the fall in the blood pressure Clamping of the superior and inferior mesentence arteries is too severe a measure for a weakened pa tient and is followed by a marked fall in the blood pressure The fall in the blood pressure can be overcome only by compression of the aorta below the diaphragm for from thirty to forty minutes

8 Clamping of the hepatoduodenal ligament for half an hour does not cause any special functional disturbances in the circulatory organs, kidneys,

pancreas liver or intestines

9 In the pathogenesis of the fall in the blood pressure which follows clamping of the hepato duodenal ligament the mechanical stoppage of the circulation plays an important part Intoxication is also a factor, but in the experiments reported no reflex effects were noted

10 Toxemia is recognized by the demonstration

of vasodilating substances

II Clamping of the hepatoduodenal ligament is not a harmless procedure but may be done under precautions in cases of profuse liver hæmorrhage

ALIPOV (Z)

Higgins G M and Mann F C Consideration of the Gall Bladder with Reference to the Process of Emptying Surg Clin A Am 1026 vi 1 41

Recent studies on the physiology of the gall bladder have in large part dealt with the manner in which the vesicle empties Factors that have ap peared to students of the problem to be instrumental in the process are the secretory pressure of the liver theintra abdominal pressure, the respiratory squeeze the tonicity of the common duct sphincter and the contractility of the intrinsic musculans of the gall bladder tunic

Following a diet of egg volk and cream, the gall bladders of animals invariably empty through the cystic duct within an interval of from three to five hours Studies on certain fish amphibia birds and mammals have proved this to be true Experiments on guinea pigs are reported wherein the gall bladder was isolated from the peritoneal cavity and watched for an interval following the intraduodenal adminis tration of the test diet Under these conditions the gall bladder partially empties by the contraction of independent muscle areas gradually changing its shape and reducing its content of bile through the common duct

Local anæsthesia permits a study of the normal gall bladder of the dog undisturbed by the effects of ether By ligating all hepatic ducts and intubating the common duct, it is possible to study the intrinsic movements of the gall bladder following a fat diet and to record these by means of a manometer and drum

The authors concluded that the gall bladder empties by the contraction of its own intrinsic musculature that the secretory pressure of the liver is of no great importance in the emptying of the vesicle that the intra abdominal pressure is not an important factor in the emptying of the vesicle, and that the sphincter of the common duct is not an inhibitor to the flow of gall bladder bile

Stewart W H, and Rvan E J Further Advance ments in the Technique and Interpretation of Cholecystography by the Oral Method Fork State J M 1026 TXVI 810

Because of many disastrous results from the intra venous use of tetrabromphthalein and tetra iodo phenolohthalein the authors set about to perfect the oral method. At present they have adopted the following technique

The intestinal tract is thoroughly cleansed by the administration of a cathartic and an enema At 6 30 pm a light meal is given Beginning at 9 30 p m, two 5 gr capsules of tetra iodophenolphtbalein are given every fifteen minutes with a small glass of water until 40 gr have been taken The dye is given in plain gelatine capsules which are dipped into a solution of keratine to seal them air tight and covered with a coating to prevent them from being broken up in the stomach These capsules are made up fresb for each patient

The patient reports without breakfast at 0.30 am, thelve bours after the administration of the dve Four bours later, at 1 30 pm the examination is repeated. A regular luncheon is then given and another examination is made one bour later. The following morning the final observation is made

The authors state that this technique can be relied upon absolutely, and that attention must be cen tered on the interpretation. Non opaque stones are visualized as circular negative shadows. Mottling of the shadow indicates small stones but care must be taken to distingui h these from gas in the duo denum Not all stones are vi ualized since calcium stones which show with the ordinary method of examination are oversbadowed by the opaque bile Stones may not show when they are overshadowed by the opaque bile in addition to the shadow cast by the thickened gall bladder wall Deformity of the gall bladder can be demonstrated Changes in the function of the gall bladder are indicated by the absence persistence faintness or late appearance of the shadow The lack of sufficient opaque bile to cast a shadow may be due to impairment of the function of the liver Faintness of the shadow is attributed to insufficient concentrating power of the gall bladder IOHN A WOLFER M D

Graham E A Cole W H Copher G H and kodama S Some New Phases of the Physiol ogy of the Biliary Tract Ann Surg 1926, lxxxiv,

Richardson E P Surgical Aspects of Certain Phases of Liver Function Ann Surg 1926

ltttiv 35 McGuire E R Problems in Gail Bladder Surgery Ann Surg 1926 lvexiv 366 Cave H W Dangers Incid

Dangers Incident to Cholecystec

tomy Ann Surg 1926 IXXXIV 371

Deaver J B and Burden V G Surgical Manage ment of the Complications of Cholecystitis Ann Surg 1926, lexxiv 379

Association of Chofecystitis with Bruce II A Duodenal Uicer tun Surg 1926 Ixxxiv 387
Douglas J Strictures and Operative Injuries of the Bile Ducts inn Surg 1926 Iven 392 e G W The Operative Management of Com Crile G W

mon Duct Stones inn Surg 1926 Ixxxv 411

GRAHAM COLF COPHER, and KODAMA state that the gall bladder has two known functions one of which is concerned with the regulation of pressure within the biliary tract and the other with the con centration of bile by the absorption of water As the blood from the gall bladder empties into the portal vein it is possible that in addition the gall bladder forms come product required by the liver

With regard to the manner in which the gall bladder empties itself the authors state that if contractures occur they are of little importance They believe that the bile is siphoned from the evstic duct by the passage of bile down the hepatic

or common duct

The existence of a true sphincter of Oddi is ques tioned but a sphincter action produced hy the tonus of the duodenum has been demonstrated The hile is eventually drawn into the bowel by the milking action of the duodenum. Oleic acid or a merl of frtty food is more potent than magnesium sulphate in causing a discharge of bile from the gall bladder. In experiments on animals in which a rubber bag was substituted for the gall bladder it was found that the bag responded in the same man ner as the organ with the exception of the absorptive

For cholecystography phenoltetra jodophthalein possesses many advantages over tetra iodophenol

phthalein

KICHARDSON cites the work of Mann and McCath which has demonstrated a decrease in the blood sugar and urea and an increase in the blood uric acid following the removal of the liver. In henatic disease the blood chemistry seems to be of more value in revealing the condition of the kidneys or

secondary changes in metabolism than it is in reveal

ing the condition of the liver itself The bile pigment is probably formed in the recticulo endothelial system from the destruction of hemoglohin It is then excreted by the epithelial cells of the liver The depth of jaundice depends upon the rate of red cell destruction the condit on of the liver and the ability of the kidneys to excrete the pigment. The van den Bergb reaction and the icterus index are of value in revealing the degree of latent and clinical jaundice

According to McNee jaundice may be caused hy excessive hamolysis toxic or infectious action on the liver epithelium the administration of cer tain drugs or obstruction of the hile passages

The chinical picture 1 considered of more vafue as evidence for or against operation than the van den Bergh reaction The chief value of the phenol tetra iodophthalein test hes in the fact that dye re tention may occur in ca es in which the serum bile rubin is within the normal limits

McGuire states that the four most common causes of death in hihary surgery are long standing jaundice cardiovascular renal disease abscess around the cystic duct and carcinoma. The chief contributory causes are lung complications (in cluding embolus) associated pancreatitis acute hepatitis liver stones and peritonitis portance of cardiac complications following opera tion on the gall bladder is emphasized Embolic processes in the lung are not unusual

Io cases of gall bladder stones confined to the gall hladder McGuire regards cholecystectomy as the operation of choice when there are no unfavorable factors such as jaundice. When stones are present in the common duct and the gall bladder is con tracted and not functioning cholecystectomy with common duct drainage is indicated because the gall hindder is useless for any subsequent procedures

In cases of common duct stones with an ap parently functioning gall bladder cholcovstectomy with drainage of the common duct is a safe pro cedure if all stones are removed from the common iluct However complications are so frequent in these cases that probably in most instances chole cystostomy with drainage of the common duct is the operation of choice

In cases of stones confined to the gall bladder and complicated by jaundice McGuire usually does a

cholecy stostomy

In subacute pancreatitis due to hiliary infection dramage is indicated. In the author's opinion the infection usually reaches the pancreas by the blood or is mphatic routes. In acute hamorrhagic pan creatitis ample drainage is important

(arcinoma of the pancreas and ampulla should not be operated upon Cholecystostomy is contra indicated when malignancy is found at operation I ither nothing should be done or some form of

internal drainage should be established In acute hepatitis the following conditions have heen found interstitual hepatitis with jaundice of the liver parenchyma cholangeitis with bihary curhosis and acute cholangeitis of the smaller intra

hepatic ducts

CAVE reports that from January 1 1910 to April r 1926 a period of sixteen years and three months, there were performed on the Second Surgical Divi sion of the Roosevelt Hospital of New York 470 eholecystectomies and ro, cholecystostomies immediate operative mortality (death in the hos pital) in these 575 eases was 6 o8 per cent Of the 241 patients subsequently traced 209 had

been subjected to cholecystectomy and thirty two

to cholecystostomy

Of the 200 who had been subjected to cholecys tectomy 182 (86 1 per cent) reported that they were well without symptoms or further operations Of the remaining twenty seven three had been operated upon elsewhere for stones in the common or hepatie ducts three for stricture of the common duet and twenty one complained of digestive dis turbances or pain in the right upper quadrant of

the abdomen No persistent biliary fistulæ were reported

Of the thirty two patients who had heen subjected to cholecy stostomy eighteen (56 per cent)
had had subsequent operations. Eleven had had a
cnoice/stectomy and six both a choledochotomy
and cholecy-stectomy. One had a second cholecytostomy six months after the first drainage operation
and a cholecy-stectomy four months later. Since the
last operation which was performed nine years ago,
he has had no abdominal discomfort of any kind

The most frequent and troublesome complication after cholecy stectomy is hæmorrhage. This may be due to an anomalous or frable vessel injury to the portal vein or the slipping of a ligature after the operation due indirectly to violent vomiting. Of the thirty, three deaths reported four were due to

emorrhage

Injury to the bile ducts only occasionally causes an immediate complication. If this occurs a reconstruction operation may be performed at some future time

Of the immediate deaths in the cases reviewed four were due to postoperative pneumonia and four

to peritonitis

Cave believes it is best to keep patients with acute gall bladder inflammation under observation for from twenty four to thirty six hours. If by the end of this time there is no abatement of the 53 mp toms, cholecystostomy is the operation of choice

Three of the immediate deaths in the cases reviewed occurred within forty hours with hyper pyrexia of 106, 107 and 107 2 degrees F respective by In cases that end fatally within forty eight hours the cause of death is probably the absorption of touns from chemically altered liver cells or infected bile.

The Rowntree Rosenthal die test is of value in determining hepatic function and should be used before operation in all cases of disease of the bilary tract in order to determine whether a removal or drainage operation should be done. In the pre operative preparation the use of calcium as suggested by Walters the foreing of funds a high carboh drate diet and the administration of glucose by mouth are indicated.

DEAVER and BURDEY state that the surgical mor tality of cholecy stitus depends largely on the dura tion of the disease and its complications. The clinical symptoms and the pathological findings often vary. In acute cholecy sittis, operation should be deferred until the acute attrick has subsided if immediate intervention is not necessitized by perforation or suppuration. Grugrene and acute perforation of the gall bladder are rare. When the latter occurs a fistula between some portion of the bowel often results.

Calcult are usually the result of cholecystitis. To remote the pathological condition the gall bladder must be removed. In biliary obstruction the degree of jaundice is dependent upon the extent of the obstruction, the threshold value and the capacity

of the kidney to excrete pigment and the permea bility of the blood vessels to pigment

In cases of jaundice, surgical mortality is probably due more often to failure to establish the bile
flow in the presence of hepatic and renal insufficiency,
thin to the loss of blood from oozing. The dangers
in obstructive jaundice are the pigment and bile
salts in the blood, the tendency to bleed, and liver
and kidney insufficiency. The aim in the pre
operative preparation should be to combat and
control these factors.

In most cases a diseased gall bladder and a stone in the common duct can be removed safely at one operation The common duct should be drained

with a T tube

In acute pancreatitis any abscess or hæmatoma that may he present should be incised and drained if there is no abscess or hematoma drainage should be placed down to the pancreas. In subcute pain creatitis the patient should be kept under observation and drainage established if a localized abscess forms. Chronic inflammation of the pancress is usually secondary to inflammation of the bilary tract. Cholecystectomy should be performed to remove the focus of infection.

Stone in the common duct is considered a complication of cholecystitis since nearly all stones are

formed in the gall bladder

In any type of operation on the biliary tract extreme care should be taken that a stone or sand like

material is not overlooked

The classical syndrome of stone in the common duct consists in colic jaundice, and chills. In some cases one or two of these symptoms may be absent The stones should be removed through an incision in the common duct the duct explored with the finger or a scoop and a T tube inserted

Deaver and Burden do not consider it advisable to delay operation after the diagnosis of stone in the

common duct has been made

The causes of recurrence of symptoms following

operation may be grouped as follows

I Incomplete primary operation such as failure to remove the diseased gall hladder the appendix, and a common duct stone, or to recognize and treat a peptic ulcer and chronic pancreatinis Chole cystostomy may temporarily reheve the symptoms of cholecystitis hut does not cure and by its mechan real effects may be the cause of new symptoms. Fer sistence of symptoms after gastro enterostomy for ulcer may be crusted by cholecystitis Removal of the appendix, even when it is not actually diseased as a safeguard against future trouble.

 Hepatitis and pancreatitis These conditions may persist for several months after cholecystectomy On several occasions drainage of the common duct resuch cases has given and make the common district of the common district.

duct m such cases has given good results

3 Accidents of the operation, of which injury to the hepatic or common duct is the most serious and unless promptly recognized and treated may result in a stricture with jaundice or a complete bilary fistula 4 Incorrect diagnosis both before and during operation. The surgeon must be trained in the art of diagnosis and in the recognition of pathological tissue.

BRUCE reports six cases of cholecystitis associated with duodenal ulcer. He mentions the similarity of symptoms and the fact that melana or harmate mess may occur from infection of the gall bladder as well as from ulcer. In the cases reported the

prominent symptoms were those of gall bladder

disease
A thorough examination of the duodenum should
be made in all operations for gall bladder disease

DOUGLAS discusses the anatomical variations in the extrahepatic hilary system and some of the puthological conditions found. Twelve cases are reported. The various methods of reparting many

of the bile ducts are mentioned

Injuries to the bile duets may occur in a simple operation or may be due to pathological conditions rendering the operation difficult or to congenital abnormalities of the ducts or arteries. The most common causes are traction on the cystic duet lack of visualization or blind attempts to stop hemor thase

The site of the injury is usually at the point of union of the cystic and hepatic ducts or the main hepatic duct above this point or less commonly

in the common duct

The symptoms are those of bility obstruction with or without cholangeitis which at first is usually intermittent but later becomes permanent. More rarely a persistent biliary fistula is present

The pathological condition present may show a short narrow stricture above which small stones, mucus or biliary detritus is often found. The ducts above the stricture are dilated and the liver is en larged and soft or when attacks of bolangeits have

persisted cirrhotic

The method of repair must depend on the condition found Recurrences of symptoms are reported after all methods Examination of follow up reports appears to inductive that the best end results follow suture of the ducts

The next most favorable

results follow hepaticoduodenostomy

Recurrence of symptoms may occur after the patient has been apparently well for months or years and the symptoms may disappear after several months of recurrence

In two cases reported the disappearance of late symptoms seemed to be influenced by the adminis

Critic considers

Crite considers the physiological reaction of the brain and liver to be in many ways similar

After operations upon either of these organs there is a rapid loss of hobils energy consciousness fades slowly and in each case there is little if any medication which can influence the unfavorable course. In each the state of the blood pre-

sure and the circulation give but little clue to the gravity of the condition. The brain and the liver are alike highly sensitive to variations in temperature. Each is a powerful organ manifesting variations within it in a peculiarly dramatic way each

sa absolutely essential to life.

About the common duct there is a great sympa
thetic plexus cilled by Crile the abdominal brain.

The breaking up of dense addiesions in the search
for the common duct cruises a generally bodily effect
comparable to that produced by manipulation of
the spinal cord or of the brain. Experimental trauma
of the sympathetic nerve supply—produces
with the sympathetic nerve supply—produces
cytological changes in the liber cells as well as in
the brain cells. Strong emotional stimuli cause
cytological changes in the cells of the here. Block
ing of the sphanching nerve supply greatly reduces
the systemic effects of manipulation of the viscera.

Clinical experience and experimental research make it clear that because of these facts operations upon the common duct require a wide regional block with novocam and when feasible a splanchue block. Also of importance are a clear exposure a sharp dissection and the use of a suction apparatus

to remove bile or any oozing blood

The best form of drainage about the common duct is the insertion in the right flank of a drain which terminates in Morrison's pouch Sudden decompression of the common duct must be avoided

Another factor of extreme importance is the main tenance of the normal temperature of the liver. This may be done in several ways. In Crile's opinion the most satisfactory method is diathermy. Justs 4 II Maoux. M.D.

Corbett R S and Peirce C B A Clinical Type of Cholelithiasis Resembling Renal Disease Re

port of Two Cases Surg Gynec & Obil 1926 dui 459

The authors describe a type of cholehthiasis suggesting renal disease. While gall bladder symptoms are not infrequently present in such cases it is the renal symptoms which bring the patient to the physician. In the two cases reported the renal symptoms disappeared after the gall bladder was removed.

The demonstration of gall stones in the roentgeno grams was facilitated by the use of tetra odophenol pbthalein not becaue of absorption by the stone but because of the contrast afforded by the stone surface of opaque bile. These cases were character used by the formation of large gall stones a moderate degree of pathological change in the wall of the gall bladder and a very fur shadow of the viscus after the oral administration of the dye.

The authors are of the opinion that in hoth in stances the cholecystitis with stones in the gall bladder was the true cau e of the symptoms

JOHN A WOLFER M D

GYNECOLOGY

UTERUS

Masson J C Acute Inversion of the Uterus Surg

Acute inversion of the uterus is a rare complication in labor. In most of the reported cases the condition occurred in a primipara. The predisposing causes are too vigorous compression of the fundus after delivery of the child traction on the cord, and relaxation of the uterus. Hemorrhage the most serious symptom may be accompanied or immediately followed by extreme shock and pain. The uterus cannot be palpated in the abdomen and a bleeding globular mass protrudes from the vulva

The most important considerations in the treat ment are (1) control of the hamorrhage hy hot compresses to the protruding uterus by pressure and by the use of pituitrin (2) control of the shock by transfusion and routine measures and (3) im mediate reduction if the patient's condition will permit it If reduction cannot be accomplished through the vagina the abdomen should be opened and the inversion corrected at a later date according to the technique of Haultain or Dobbin

to the technique of Haultain or Dobbin

Whitehouse B and Shaw W F The Causes and

Treatment of Uterine Hæmorrhage Brit M

J 1926 11 723

WHITEHOUSE believes that menstruation is the monthly abortion of the decidua of an unfertilized ovum. The menstrual discharge is the lochta of an unfertile abortion. The pre menstrual endometrium is the menstrual decidua and its development and life are dependent upon the corpus luteum. Men strual abortion is initiated by the death of the unfertilized ovum and retrogression of the corpus luteum.

Pathological uterine hæmorrhage falls into one of four clinical groups (1) epimenorrhera (2) menos taxis (3) menorrhagia (4) metrostaxis Epimenor rhaa is the clinical manifestation of hyperactivity of the sex complex Menostaxis is an incomplete un fertile menstrual abortion Menorrhagia is the result of uterine insufficiency which may be develop mental inflammatory or degenerative sufficiency may be associated with lesions in the metrium or the endometrium Metrostaxis is com monly the reflection of external influences upon the uterus The accessory factors most commonly asso ciated with irregular uterine bleeding are functional hyperthyroidism and bypersensibility of the sym pathetic nervous system Fstimation of the blood tolerance of sugar and of the basal metabolic rate provides important data in the investigation of uterine hæmorrhage at periods of unstable equilib rium, especially puberty and the menopause

Sinaw states that in the normal uterus a definite bulence is always maintained between the musculature and the flow of blood through the vessels. This flow can be regulated by contraction of the muscle fibers

In chronic metritis the muscular tissue is dimin ished and is separated from the vessels upon which it must act by a mass of mert fibrous tissue. Hence

excessive hamorrhage results

In subinvolution the uterus remains large and builty hecruse the miscular tissue is not absorbed and in addition the quantity of fibrous and elastic tissue especially the latter is increased. It is the collection of this tissue in large quantities around the blood vessels which gives the characteristic microsopic appearance in subinvolution and accounts for the chief symptom of hamorrhage. The muscular tissue of the uterus is rendered unable satisfactorily to control the flow through the new vessels when a fixed inert mass of elastic tissue is placed between it and the vessel walls. Subinvolution and chronic metritis frequently occur in the same uterus.

In hypertrophy of the uterus the endometrium and the uterine walls are greatly thickened, but there is no alteration in the distribution or amount of the muscular elastic or fibrous tissue. Patients with this condition consult the gynecologist in middle life with a history of hemorrhage and dysmenor ribea extending over many years. Thesy mptoms are caused by the changes in the endometrium, but the thickening of the wall is due merely to overwork.

ROLAND S CRON M D

Pemberton F A The Relation Between the Treatment of Cancer of the Cervix and the Cell Type 1m J Obst & Gynic 1926 vii 536

The proportion between the three cell types in squamous cancer of the cervir is about the same in the different charges of the disease.

in the different clinical stages of the disease. In increasing order of malignancy the different cell types are the spinal the adenocarcinoma the transitional and the fat spindle.

The type of cell does not indicate whether opera-

The cases baying more stroma than cancer tissue respond more favorably to either kind of treatment than those with more cancer tissue than stroma

In the discussion of this report, CULBERTSON stated that in his opinion we are not justified in giving a prognosis based on the cell type of uterine carcinoma.

NOAA said that there are certain cancers which are definitely of the spinal cell type and others which are just as definitely of the fat spinal cell type but many cases occur in which the cell type would be differently interpreted by different observers. In

spite of these drawbacks however some valuable information seems to have been derived from the study of the cells particularly the fact that in the cervix contrary to what might be expected the spinal cell group possesses a definitely lower grade

ol mahenancy than the basal type

HEALY stated that 88 per cent of his cases belonged to what might be called the transitional cell or rather favorable group 18 per cent of these were absolutely favorable that is of the adult type of cell the spindle cell type to which PEMBERTON refers, to per cent were of the mixed transitional and spindle cell or adult type resembling more closely the non malignant than the highly malignant type of cell and the remaining 12 per cent were of the highly malignant undifferentiated embryonal cell toye The treatment of cervical cancer cannot be based in any way upon the histological findings. All that is gained from these is a point of view with regard to

the prognosis KEF ve stated that he is unable to attach any value to the predominating cell as a prognostic index in

his clinic

WARD is of the same opinion as Leene SPALDING stated that the unripe cancers of the cervix seem to be the most malignant and have the most rapid growth when the majority are first seen they have extended to the parametrium or vaginal walls. However such cancers react better to radium treatment Spalding's cases of unripe tu more with disease limited to the cervix have been cured The ripe tumors although slower in growth and less malignant seem more resistant to radium in fact it seems as if their growth is sometimes accelerated by cadium treatment

E L CORNELL M D

ADNEXAL AND PERIUTERINE CONDITIONS

Whitehouse B The Influence of the Corpus Luteum upon Menstruation J Obst & Gynec Bril Emp 1926 Trill 380

It is evident from the author's observations that removal of the corpus luteum and therefore presumably also the degeneration of this structure is followed by necrosis of the superficial layer of the endometrum with extensive extravasation of blood into its tissues Necrosis of the fully developed nonconceptional decidua is associated with the clinical phenomena generally known as menstruation follows that this function is to be regarded as an infertile abortion and the voided products of necrosis as the menstrual lochia. In the production of this abortion whether it be of the partly mature decidua or of the developing organ the corpus luteum is a dominant factor

Ovulation is apparently independent of the cor pus luteum although the actual menstrual period is intimately associated with the loss of the lutern

hormore

The author's observations confirm Shaw's contention that the process of follicle ripening is period ical and responsible for the rhythm of ovarian ac truity Pollicle rupture however, is not influenced by any hormone elaborated by the preceding eornus luteum

On three recent laparotomies for chronic appendi citis in cases in which the pelvic organs were normal the opportunity was taken to aspirate the liquor folliculi from mature follicles and inject the fluid into the blood stream by way of the median basilic vetn The experiments took place during the mid point of the sexual cycle The date of the subse quent menstruation was not influenced by the procedure Amounts varying from 1/2 to r c cm of liquor folliculi were injected intravenously without producing any clinical effect whatsoever, either general or local such as hyperæmia increased uterine secretion the production of uterine hæmor rhage or alterations in the blood pressure

It was concluded therefore that the liquor folli cult in the human spicies is mert insofar as any influence upon the production of astrus of the men strual cycle is concerned In this respect it appears to differ from the follicular secretion of certain lower animals. The author summarizes his con-

clusions as follows

: Excision or degeneration of the corpus luteum results in necrosis of the endometrium

2 Ovulation is not influenced by the corpus luteum but is an index of rhythmic ovarian activity The liquor folliculi in the human species has

no specific function in the sex cycle

4 Menstruction is the monthly abortion of the developing decidua of an unfertilized ovum and the menstrual discharge is the lochia of this abortion. The pre-menstrual endometrium is the menstrual decidua and is merely a stage in the de velopment of the complete decidua of pregnancy The premenstrual dilatation of the uterine glands is an artefact produced by the retention of secretian due to construction of the ducts by the stroma and later, by extravasated blood

The development and life of the menstrual decidua are dependent upon a hormone elaborated

by the corpus luteum

6 Degeneration of the corpus luteum is normally the result of a negative phase produced by the death of the ovum with its corona radiata and the absorption of its products The cells of the corona radiata are morphologically identical with the large cells of the corpus luteum

7 The life of the unfertilized human ovum after rupture of the follicle is approximately fourteen

days 8 The rhythmic cycle of events in the human female may be represented as follows thuteenth day runture of the follicle nineteenth day de velopment of the corpus luteum completed twen tieth to twenty seventh day, development of en dometrium into menstrual decidua with differen tiation into stratum compactum and stratum spongiosum, twenty seventh day death of the un fertilized ovum and the production of a negative phase" by the dead cells of the corona raduata, twenty seventh to twenty eighth day beginning degeneration of the corpus luteum followed by necrosis of the menstrual decidua first to fourth day, continued necrosis of the decidua and removal of the products of abortion by uterine contraction stimulated by pituitary activity, and fifth to twelfth day, regeneration of the endometrium to complete functional activity.

CARLH DAVIS M.D.

McCready R L and Ryan E J Roentgenog raphy of the Cavity of the Uterus and Fallo pian Tuhes with Special Reference to Its Value in Cases of Sterihty im J Roentgenot 1926 X1 321

The authors briefly review the development of the roentgenographic study of the female generative organs with the aid of contrast media such as lipiodol. The technique used is described hriefly and the difficulties of interpreting the roentgeno graphic image are discussed. The value of stereo scopic exposures and the necessity of examination-made at varying intervals are emphasized. The article includes numerous roentgenograms illustrating apparent discrepancies revealed by examinations made at different times, and an attempt is made to explain them. These cases are exceptional however and the normal patency of tubes is ordinarily demonstrated easily.

One of the chief advantages of the method in sterility due to occlusion of the tubes is that it reveals the point of occlusion, which is a very important factor in determining the indication for operation. In occlusion at the isthmus the prospect of improvement after operation is very poor. The further the occlusion is situated from the uterus, the hetter the chances for the success of operation

The authors believe that the results of roent genography of the tuhes can he thoroughly relied upon if the examination is made properly. If has been shown by many cases that not only the diagnosis of patiency but also the point of occlusion of a tube can he accurately demonstrated. As practical examples of the efficiency of the test three cases of sternity are reported briefly.

ADOLPH HARTUNG M D

EXTERNAL GENITALIA

Sherman E M and Norton S L Further Re search in the Problem of Vulvovaginitis in Children II Serological Studies J Ural 1926 xvi 279

The authors state that by the use of the five preliminary tests for the selection of a suitable complement before the sera from guinea pigs are pooled the complement fixation test for gonorrhea is rendered more richable. In the study reported, only 70 per cent of the animals tested could be used in the seriological tests.

Of the 196 parallel tests with a polyvalent antigen made from ten Torrey struns and a bivalent antigen made from two Torrey strains, 150 (765 per cent) gave identical results, thrity-eight (164 per cent) showed a stronger reaction with the polyyalent antigen, and eight (4 oS per cent) showed a stronger reaction with the bivilent antigen

In the parallel tests with active and mactive sera of stronger reactions were obtained with the active sera. However this was too small a series of tests from which to obtain conclusive deductions. An experimental study of active and mactive sera would be of value in the complement firstion test for gonorrhea in which the antibody response is generally weak.

A Kaliski Breuer control test on all sera gave no evidence of false negatives which could be ascribed to the presence of natural antisheep amboceptor in the patient's serum

The three courses of provocative vaccine admin istered did not significantly affect the complement fivation tests the clinical signs, or the bacteriological findings

Children from 4 to 5 years of age with similar clinical pictures gave weakly positive complement fixation reactions during the period of study. Two children aged 9 and 10 years who gave a weakly positive reaction showed only the latent clinical stage. It was observed that older children with only latent signs gave a negative or only weakly positive serological response.

Children from 1 to 3 years of age in the chronic stage with occasional exacerhations or in the stage with no exacerbations gave negative complement fixation reactions. Two children in the negative group had reached the age of puherty and had not shown any signs of exacerhation, remaining clinically in the chronic stage while under observation. It is possible that these two children were examples of a spontaneous cure at puherty a helief held by many observers and frequently expressed in the literature It has been observed that an exacerhation with in creased clinical signs in children over 5 years of age is invariably preceded accompanied or followed by a stronger serological response. In babies and very young children an exacerbation with accompany ing increased clinical signs has not produced any increase in the serological response as demonstrated by the complement fixation test Therefore it seems that age as well as involvement is an important factor in the production of the gonococcus anti-

Of the blood specimens obtained for controls from adults with positive histories and clinical signs, 68 8 per cent gave positive complement fixation re actions and 31 r per cent gave negative reactions. Of the blood specimens from normal adults, 91 6 per cent gave negative reactions. One evidence of on specific fixability occurred four bleedings from one normal adult giving weakly positive reactions with a poby alent antigen (serum not anticomple mentary) and negative results with a bivalent antigen.

None of the seventeen vul ovaginates strains isolated to date agglutinated with a polyvalent immune serum in dilutions of 1 100 and above

In five cases the Wassermann reaction was po i tive Round S Cron M D

MISCELLANEOUS

linggins R R I igntion of Pelvic Veins in Throm bophlebitis 4m J Obst of Core 1926 va 562

The diagnosis of thrombophibitis is not difficult been when there i doubt in explorator, liparet ome in no way interferes with the progress of the case. If a mistake is made, the patient will survive and no harm has been done. It is not unusual to discover i small aboses in the uterus or broad ligament which alone will justify the exploration. Such a less or may be accompanied by eithit and a temperature similar to that of philothis.

The veins should be ligated through a trans peritoneal inci ion. They need not be excised. If possible the ligature should be placed distal to the point of infection. If this is impossible a ligation of the vein somewhat short of the extreme extension of the intection will probably be beneficial because it will interrupt the blood current and thereby arrest the spread of the infection The author has not hesitated to ligate both ovarian veins and in one instance lighte i the sena casa With the exception of a moderate welling of the legs which disappears there are few apparent symptoms from such a proeedure. This is true also of lightion of both of the ovarian veins and the common iliacs. In the fu ture the author will ligate the common ifine in preservance to the internal iliae as this procedure is easier and can be done more quickly

The mortality in the author's entire series of twilve cases four of which were reported in 1912 was 1313 per cent. Eight cases are reported in

detail In the discussion of this report. Humestone stated that he thinks the treatment illogical because of the multiplicity of the vains out of the pekis. The greatest advance in the management of the condition in the last ten vears is its prophilated treatment by primary reput of all cervical injuries. Humpstore his hid considerable success with small repeated tran fusions in uch cases.

BREITAUFR believes it is not easy to determine which cases should be operated upon

I excessor thinks Haggins uscession of tying off the pelvic veins for purerpetal infection is based upon a wrong conception of the pathology. The main argument against the procedure is that the condition is a blood stream infection when the dam age has been dore. It would therefore appear that the tying of veins would do very httle if any good and probably would harm a patient who is already badly, handicapped by a severe infection.

SCH ARTZ tuted that ligation is indicated only in cases which are definitely due to anaerobic streptococci and not due to the ordinary progenic organ isms and should be done in such cases only when the lung lesions make their appearance

POLAX reported that when he has operated in cases with the indications given by Huggins the mortably was higher than in the cases in which he did not operate

LIFFR stated that multiple incisions or any in erson where there is no pus may change a condition which is taken care of by the lymphatics into a blood stream infection

MILLER believes that the operation discribed has a definite field but that it is a very limited one he cannot agree with Huggins that it should be used routinely in septic thrombophleluts in the early stages I I Conveil MD

Sampson J A Endometriosis of the Sac of a Right Inguinal Hernia Associated with a Pelvie Peritoneal Endometriosis and an Endometrial Cyst of the Ovary 1m J Obst & Greet 1916

Notal E The Significance of Uterine Mucosa in the Pallopian Tube with a Discussion of the Origin of Aberrant Endometrium 1m J Ohn

E Grace 1926 XII 484
Davis C II and Gron, R S A Contribution to
the Study of Endometriosis Am J Obit &
Gya c 1926 XII 526

SAMPSON is of the opinion that pelvic peritoneal endometriosis is usually due to the escape of men strual blood into the peritoneal cavity with a sub sequent local reaction. He states that menstrual blood at times passes into the peritoneal cavity as a back flow from the uterus through the tuhes from the tuhal mucosa steelf from the perforation of an endometrial hamatoma of the pyary and possibly from endometrial tissue on peritoneal surfaces Menstrual blood like other irritants causes granu lation and scar tissue formation adhesions and perstoned inclusions. Endometrial tissue which is often found on the surface of these peritoneal lesions or embedded within can be explained only by the assumption that fragments of uterine mucosa in the menstrual blood became implanted at these points or the peritoneum was in some was converted into endometrial tissue by the specific stimulation of some ingredient of this blood

Some ingrement of its blood of aconsortates that sumfer personent lessons my be produced in rabbits and monkers be seen my be produced in rabbits and monkers be seen my bits of uterns with the control of the control

These implantation like lesions occur most fre quently in the dependent portion of the pelvis and in its normal peritoneal pockets and folds. It is logical to assume that they might occur in h mid sac just as tuberculosis and carcinosis have occurred in hernial sacs in cases of peritoneal tuberculosis and carcinosis

Sampson reports a case of pelvic peritoneal endometrious associated with an endometrial cyst of the ovary and inguinal hernia. Peritoneal lesions contuning endometrial tissue were found in both the interior and the posterior cull de sac and in the walls of the hernial sac. The lumen of the hernial sac had been nearly completely occluded by the endometriosis. Observations made at operation and in the laboratory study of the tissue removed indicate that the pelvic peritoneal lesions and those of the hernial sac had a common origin. From the material escaping into these cavities and from the local reaction, Sampson concluded that the sub-stance responsible was menstrial blood.

NOVAL reports a histological study of many hundreds of fallopian tubes with particular reference to their contents. In seven tubes, particles of uterine mucosa were demonstrated lying free in the lumen and in one tube which contained a pregnancy in its outer third, there was found hetween this point and the uterus a mass of cells which resembled trophoblastic or possibly decidual cells The nature of endometrial particles when these were discovered, was indisputable. None of the women from whom these endometrium containing tubes were removed was menstruating at the time Five of the seven tuhes containing endometrium were removed on the twenty sixth, fourteenth eighth, tenth, and ninth days of the cycle respectively. In none of these cases did the endometrium in the tubes show the char acteristic picture of endometrium thrown off at menstruation

In at least five of the cases the particles of free endometrium were so large that it seemed almost impossible for them to have entered the tiny uterne orifice of the tube. The suggestion that they were probably moving toward rather than away from the uterus is strengthened by the finding of definite endometrial tissue in the ovary in at least two of the five cases. The failure to find it in the others may have been due in several instances to the fact that little or no variant itssue with the original or original to and in one case to the difficulty of finding small slands of ovarian endometrioma in a specimen which had been kept in a fixing solution for a considerable time.

Thirteen observations made in the course of oper attoon upon women who were mensituating and whose tubes were open failed to show regurgitation of mensitual blood in a single case. Histological examination of tubes removed during mensituation characteristically showed little or no blood. More over, no blood has apparently been observed in the pelvis in the thousands of women operated upon by thousands of surgeons immediately after mensituation although if any of the blood bad escaped into the pelvis it could scurely have been resorbed in such a brief space of time. It seems logical to conclude therefore that while mensitual regurgitation.

through the tube is possible, it is exceedingly in frequent too infrequent to explain such a very common lesion as pelvic endometriosis

Novak believes that endometrial tissue cannot undergo retrograde transportation into the tube He states that if it takes the smaller ovum at least a number of days to pass down the tube even with the current at its brok. It would probably take much longer for tissue to pass upward against this stream assuming that this were possible. Moreover it appears incredible that degenerative tissue could thread itself into the tubal orifice make its may upward, and after probably many days still have sufficient vitality to grow where it falls. This seems especially impossible because of the very rapid autoly tic and degenerative changes that occur in the tissue cast off during menstruation.

One source of aberrant endometrium may be ectopic differentiation of colonic epithelium. This is suggested by the fact that in ovarian endometriosis there may be found all of the stages of the differentiation through which the genital epithelium normal ly passes e.g., simple endometrium like epithelium, with few or no invaginations and little or no stroma, more typical endometrium with or without men struit rectivity mucoss resembling that of the tube etc. The mere presence of hemorrhage can not be taken as evidence of menstruit participation of epithelium.

The evidence indicates that if implantation plays a part in the dissemination of the endometrium as it well may it is the ovary from which the seed is primarily dropped rather than the tube. All reasons cited by Sampson in favor of the tubal origin of implants speak just as forebly and indeed much more forcibly for the ovary as a primary source. Endometrial tissue from the ovary would theoretically possess much greater vitabit, than that from the menstruating uterus for it could readily hreak off from the surface or be cast out in the rupture of hematomata without the influence of menstruation

DAVIS and CRON report nine cases of endome triosts—one in which the endometrial implants were probably due to transuterine inflation one of an endometrial implant involving the posterior vault of the vagina one of endometrial implants on the uterus and five of chocolate cysts of one or both ovaries

The menstrual histories show that in an appre crible number of these cases the menstrual periods had been painful from the first. In the determination of the etiology of the condition this fact may be of significance. It may eventually be shown that certain overies contrun rather large embryonic in clusions of endometrial tissue which cause pain from the first period and eventually result in chocolate costs and it is possible that the spill from such cysts might lead to the development of secondary growths in the cul de sac or on the uterus. It is possible also that the pain of the first period may be due to a very tight internal os, and that this associated with a congenital retrodisplacement of the uterus results

in the escape of endometrial tissue through the tube and subsequent growth in a recent corpus Inteum with the later formation of chocolate cysts

In the discussion of these reports GOODALL said that endometriosis is a clinical entity which has been established beyond any doubt. It will never be possible from the study of the human anatomy to ay that the overflow from the uterus and tubes is or is not the cause or that all of the tissues of this nature arise from pre existing endometrial tissue in the ovary but a solution of this problem may come from a study of comparative physiology in lower animals in which there is no menstrual flow Goodall is inclined to attribute the condition to ectopie embryonal tissue of an endometrial nature in the ovary

HEANEY reported six cases of endometriosis. In three in which the abdominal wall was involved the involvement followed a laparotomy. In one case a case of early pregnancy examination revealed an adenoma of the rectoviginal septum which looked like a carcinoma and four perforations in the vaginal

viult from which hung polypi

DANFORTH reported that on at least one occasion at operation performed during the menstrual period he saw a small amount of blood come from the tube Chocolate cysts seem always to be found in association with patent tubes. It therefore has been easier for him to accept the transplantation theory of endometrio is than the metaplastic theory

SCHWARTZ stated that in the study of endometrial tissue in the ovary the implantation theory has im pressed him for two reasons, first, because the sur face of the ovary which is in close proximity to the fimbriated end of the tube is the most common site of the lesion, and second because in its earliest stages

in the ovary the lesion is always superficially placed CURTIS reported that for a year and a half he has been operating whenever possible at the time of menstruation. In three cases menstrual blood was observed coming from the tubes. During the last six months he has encountered approximately fifteen cases of endometrial implants. In nearly all there was a retrodisplacement of the uterus and in every instance the fimbriated ends of the tubes were Datent F L CORNELL M D

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Thomson C J The Causation of Still Birth and Neonatal Death J Obst & Gynac Brit Emp 1926 xxxiii 390

In 100 cases of still birth and neonatal death reviewed by Thomson the primary causes of death were as follows

Maternal conditions Eclampsia and albuminums of pregnancy 6 15 Syphilis Acute maternal diseases 5 Chronic maternal diseases 5 Hæmo rhage of pregnancy and parturation 6 20 Complications of labor Unclassified maternal states 2 Fetal conditions D formities and congenital defects 11 Idiopathic fetal di eases 6 Prematurity Postmaturity 3 Pulmonary lesions Visceral hæmorrhage Placental conditions Extensive red or white infarction Retroplacental hæmatoma Cause not found

In the twenty eight cases of macerated still horn infants the causes of death were

munito ottobre	
late-nal conditions Toxemias of pregnancy	
Syphilis	10
Youte and chronic maternal diseases	,
Unclasatied maternal states	ι
etal conditions	
Fetal deformity and idiopathic disease	3
Prematurity	I
Placental conditions	
I lacental insufficiency	3
Cause not found	3

From these figures it is evident that syphilis accounted for over one third of the deaths in the cases

of macerated still born infants
In the forty six cases of still born infants without

maceration the causes of death were Maternal conditions Toxemias of pregnancy 3 Syphilis Acute maternal diseases T Unclas ified maternal states Hæmorrhage of pregnancy and parturation 18 Complications of labor Fetal conditions Deformities 8 Postmaturity 1 Pulmonary conditions Visceral hæmorrhage

Placental conditions
Placental insufficiency
Cause not found

Half of the deaths in this group were due to the complications of labor

In the twenty six cases of neonital deaths, the

Maternal conditions Toxamias of pregnancy 3 Syphilis 3 Acute maternal diseases Hemorrhage of pregnancy and partuntion I Complications of labor 2 Fetal conditions Deformities and defects Postmaturity T Prematunty per se Pulmonary lesions Placental conditions Placental insufficiency (causing prematurity)

Pulmonary lessons and prematurity per se were therefore responsible for nearly half of the deaths in these cases

The best results from preventive treatment are to be expected in the toximia and syphilis groups CARL H DAVIS M D

Eden T W The indications for the Induction of Abortion Brit M J 1926 u 237
Vicilroy A L Aspects to Be Considered for the

Termination of Pregnancy Before Viability of the Child Brit M J 1026 it 240 Barris J D Slow and Rapid Methods of Induction

of Abortion But M J 1926 is 241

Price F W Cardlac Indications for Termination

of Pregnancy Before Viability of the Child But M J 1926 II -42 Cole R H The Plea of Insanity for the Termina tion of Pregnancy Before Viability of the Child

Brit VI J 1026 tt 244
Evers H H The Ethical Aspect of Termination
of Pregnancy Before Viability of the Child

Brit If J 1956 n 245

EDEN calls attention to the fact that the medical profession has always recognized that its members should not make themselves responsible for the termination of pregnancy unless there are good reasons for beheving that completion of the pregnancy would endanger the mother is life or prejudice her future health. It has never been possible and probably never will be possible to all you down structures as to the conditions under which abortion may be or should be induced. If it were possible these rules would need constant revision to bring them into line with progress in the management of di sease. It is therefore a matter of practical interest for us to determine from time to time the extent.

to which we are agreed upon the conditions which may fairly be regarded as indications for the induc

tion of abortion

Tuberculosis There seems to be no escape from the conclusion that on the whole pregnancy is a definite risk to the tuberculous mother, and that it is not to the advantage of the community for the period of the community for the period with a risk of tuberculosis seven times greater than that in other children Theorem or the period of th

Nephritis In women suffering from chronic ne phritis pregnancy is always attended by certain very definite risks. There may be a complete breal down of the renal function during pregnancy leading to uramic convulsions or an intercurrent attack of acute nephritis may supervene. If these complications occur and are survived the working ca pacity of the damaged organs will be permanently reduced. In a relatively high percentage of cases of chronic nephritis accidental harmorrhage espe cially of the toxemic form which is associated with interstitial hæmorrhage and necrosis of the uterine Moreover in addition to the maternal risks the fetal risks are very heavy probably not more than 60 per cent of the children survive many of them dying from prematurity and the effects of transplacental intoxication

A woman with chronic interstitial nephritis of the azotermic type may oe allowed to continue her first pregnancy provided she is kept under careful supervision. If a seriou renal breakdown with uremic manifestations occurs in this pregnancy, early abortion should be induced in subsequent pregnancies. In the case of any woman with chronic nephritis the occurrence in early pregnancy of albumnuma and oxdema of the renal type justifies if it does not actually require the induction of abortion

Bacillus coli s tlection of the unnary tract is of solution coli infection of the unnary tract is its acute form which is not uncommon does not as a rule lead to serious developments during pregnancy although it is sometimes, the cause of an arute fever during the early purpertum which may suggest the onset of purpersal egosts. Left as so one case recently in

which abortion was necessary

Diabetes mellitus Although in the past diabetes mellitus has been regarded as one of the gravest intercurrent diseases in pregnancy its risks have been very greatly reduced by treatment with insulin Simple glycosuria is always amenable to dietetic treatment and never constitutes an indication for

abortion

Valvular disease of the heart Valvular disease of the heart seldom calls for the induction of abort ton As a rule a young woman with a well compensated valvular fesson will pass through one or possibly two pregnancies supersially if they follow one another quickly undoubtedly damage the heart and reduce the patient's expectation of life. The

nature of the valvular lesson is of little importance the chief factor is the state of the cardiac muscle It is only when signs of failure occur that the con dition becomes serious

Mental conditions In several cases Eden ter minited pregnancy on the advice of a psychiatric physician because the patient had had a previous attack of puerperal insanity or was what is called a borderline case and had an unfavorable family

a norderine case and nad an uniavorable tamily history. All of the circumstances of the case should be reviewed by the general practitioner, the psy chiatric physician and the obstetrical surgeon before

abortion is decided upon

Chorea Chorea is a not very uncommon comphication of pregnancy but is usually amenable to complete rest in bed in a quiet room careful feeding and the administration of arsenic. In severe cases with pyrexis, however the termination of pregnancy may be necessary. In all others however severe the clonic spasm, the induction of abortion need not be considered.

Toxamic comiting Toxamic vomiting sometimes proves to be incurable by medical means and must then be arrested by termination of the pregnancy In London, cases requiring the induction of abortion

are extremely rare

Vescular mole Vesicular mole is an invariable indication for the induction of abortion. As a rule however in exact diagnosis cannot be made until after considerable hamorrhage has occurred the internal os is open and the finger can detect the vesticular contents of the uterus.

Retintion of dead lettis The retention of a dead early fetus in the uterus is usually diagnosed easily after the elapse of an interval of time sufficient to allow shrinkage of the uterus. In such cases the castor oil and quinne method is usually effective

Bleeding The obstetrician should never he in a hurry to interfere with a threatened abortion be cause it is attended at the onset by severe bleeding. Persistence of bleeding is of more serious import for the life of the ovum than an initial severe harmor than.

McLikov emphasizes that each case must be treated according to its particular requirements. The obstetrictan should advise intervention only after he has on ultied with a physician or a clinical pathologist. The induction of abortion is not to be regarded as a substitute for efficient treatment otherwise.

No social or economic interests apart from the medican needs of the case should be taken into account. The obstetrician should not be influenced by any blekthood of defect in the christer of the offspring. If completion of the gestation is undesarable for medical reasons the patient should be urged to avoid subsequent pregnancies. If this course is unpossible sterlization is to be considered. In some cases sterlization is to the considered

In discussing methods of inducing abortion Mc Ilroy states that the slow method is to be preferred,

especially in cases of severe wasting disease such as phthisis in which hæmorrhage has a harmful effect upon the patient's recovery Abortion can be in duced successfully and without sepsis by tents The dilatation of the curvix with Hegar's dilators and the introduction of a gauze and glycerin drain causes the uterus to empty its contents with little or no hæmorrhage It must be remembered however that the stimulation of the uterus to contract and expel 1 s contents 15 not always easy. In some cases a small tubber tube or a large catheter inserted into the uterus acts satisfactorily. In cases in which the fetus is palpable, induction may be brought about by passing the rubber tube or hy rupturing the mem branes and pulling down a leg

Because of the risk of hæmorrhage and laceration in a patient already devitalized by disease the rapid method of clearing out the ovum under anæsthesia as is done in cases of incomplete abortion, is not advisable except in very early pregnancy

BARRIS states that before the end of the third month of gestation the uterus can be evacuated readily by the rapid method because, at this stage the head of the fetus is small and easily collapsible and therefore not much dilatation of the cervical canal is necessary Moreover the uterine cavity is not too large for the finger to be able to explore its walls completely and separate the oxum from its

After the third month of pregnancy the evacua tion of the uterus is far more difficult as the fetal head is both larger and harder. In the rare instances in which rapid evacuation of the uterus is necessary after the third month of gestation it is far safer after having dilated the cervix as much as possible to incise the anterior forms transversely, strip up the bladder from the front of the cervix, and then di vide the anterior lip of the cervix longitudinally so as to expose the uterine cavity, puncture the mem branes, and remove the fetus by grasping a leg This operation of vaginal hysterotomy makes it possible to empty the uterus completely with no risk of lacerating the maternal tissues and is to be preferred to an abdominal casarean section

The slower methods are usually indicated also after the third month Of these the best consists in the introduction of a small hydrostatic bag through the cervical canal after dilatation of the canal by a laminaria tent or metal dilators

In cases of vesicular mole the evacuation of the uterus by ahdominal casarean section has been done

with very satisfactory results

PRICE emphasizes that the essential cause of cardiac failure lies in the heart muscle This being the case the relation to the myocardium of chronic valvular disease and disturbances of the cardiac mechanism can be readily understood

In a case of chronic valvular disease it is of the utmost importance to ascertain whether with the valvular lesion there are coincident changes in the myocardium or blood vessels or both, and if so their degree

In the attempt to determine the prognosis in a given case of chronic valvular disease, the nature and degree of the lesion its mode of origin, the de gree of any existing cardiac failure, the existence of complications, and the risk of sudden death must be considered It is necessary to determine the extent to which the character of the pulse and blood pres sure have been changed and the size of the heart In cases of aortic incompetence it is necessary to determine the pulse pressure, and in cases of mitral stenosis the length of the presystolic murmur and the presence and length of a diastolic murmur

Whenever indications of cardiac failure are noted during pregnancy the obstetrician must consider the degree of the cardiac failure the stage of the pregnancy at which it supervened, the immediate cause of the attack, and the response of the condition

to treatment

In cases of the first degree of cardiac failure, it is probable whatever the stage of the pregnancy, that the patient will be able to proceed to full term with out risk to life In cardiac failure of the second de gree occurring during the first half of pregnancyespecially during the first three months and without some temporary cause-it is unlikely that the pa tient will be able to proceed to full term, but efforts should be made to allow her to do so if possible If cardiac failure of the second degree occurs in the second half of pregnancy it is probable that the patient will proceed to full term. In either case, rest is imperative possibly for several months

If severe cardiac failure occurs in the first half of pregnancy it is exceedingly improbable that the patient will be able to proceed to full term, but even in such cases it is surprising how often the outcome is favorable if the patient is able and willing to rest in bed for several months. If severe cardiac failure occurs in the second half of pregnancy the pregnancy should be allowed to proceed to term if possible

If extreme cardiac failure occurs at any stage of pregnancy, the pregnancy should undoubtedly be

Except in extreme cardiac failure, it should be accepted that, as a general rule, the pregnancy should not be terminated until a reasonable period of rest and other therapeutic measures have been tried If in cases of cardiac failure of the second or third degree proper treatment carried out for a reasonable period is not attended by at least a certain amount of improvement or if a relapse occurs termination of the pregnancy should be considered more favor ably, especially in cases of mitral stenosis

In any case in which it has been decided to ter minate pregnancy an attempt should be made first to treat the cardiac failure in the hope of affording a better chance of a favorable result from the induction

of abortion or premature labor

COLE states that insanity during pregnancy is a somewhat rare condition, constituting less than 1 per cent of the total incidence of insanity in women While mental disorders of a mild type, such as sub acute depression, morbid yearnings, and transient

perversions of one kind or another are not uncom mon they pass over into actual insanity in only exceptional cases

If insanity develops in the latter months of preg nancy it usually persists in recoverable cases for some time after the birth of the child whether the

nationt is delivered promaturely or not

Unmarried girls who become pregnant sometimes seek termination of the pregnancy to alleviate their mental distress in ignorance of the law governing the matter. Cole has seen no such case in which operative intercention would have been justified

In phobic cases of the obsessional group in a high as the result after consultation the obstetrician believes that the morbid fear of death as the out come of the pregnancy is so overpowering as to en danger the patient's life operative intervention

may be indicated

With regard to cales in which previous insanity has occurred especially it it occurred after labor and in borderline cases in which there is an un favorable tamily history. Cole feels obliged unless there are indications presented by the patient's bolds health to dissent from the view expressed by Eden that labor should be induced before the child is viable. He recard it as doubtful whether the mental disorder would be less hable to occur following premature intervention than ifter the seventh month or at full term

Cases have been known in which an insane hus band home on leave from an institution, has caused his wife to become prignant and the wife has become distracted at the prospect of bearing a child who she thinks may be mentally defective. The fear is a veritable obsession. Cole briteves that in such cases there are quite adequate grounds for inter

In Cole's experience the most usual types of in sanity occurring in pregnancy are the mame de pressive type and dementia pracox. When symp toms of exhaustion ensue in the first months of pregnancy from the seventy of a mental disorder it is doubtful whether the termination of the preg nancy would be beneficial in fact it mucht make Retusal of food toscounts and matters worse suicidal rendencies require most careful observation of the patient but the pregnancy should be allowed

EVERS states that no purely speculative excuses for emptying the uterus should be entertained for a moment The procedute should be most rigidly restricted to conditions in which its value has been proved beyond doubt. These conditions Evers be heves are extremely few. The burden of proof of indication or justification re is always with those who recommended the operation and many of the reasons given thu far have been largely speculative and unconvincing

In conclusion Evers says that he bas I een asked by I yle to give the three following good reasons why the induction of abortion should be practically never

considered

I The enormous importance that is attached to the value of intra uterine life today

2 The great improvement in the medical treat ment of most complications which has occurred in

recent times 3 The fact that the dangers originally believed to be associated with pregnancy under certain con ditions were most of a speculative nature and groundless CARL II DAVIS M D

Smith M G On the Interruption of Pregnancy in the Rat by the Injection of Ovarian Follicular Txtract Bull Johns Hopkins Hosp Balt 1926

XXX14 503 Within the last few years considerable study has

been directed toward the definite cyclic changes in the vaginal mucosa of rodents during distris which can be determined and followed by the evamination of vaginal smears. The changes in vaginal smears were hest used by Allen and Doisy for testing an ovarian extract. Allen and Dossy have shown that an extract of ovarian follicular fluid will produce in the vaginal mucous membrane of an overectomized rat changes which are identical with those seen dur ing the centrus cycles in normal animals. Smith undertook a series of experiments on rats to deter mine the effect of ovarian follieular extract upon pregnancy He draws the following conclusions

I It is possible to interrupt pregnancy in the rat

by the injection of follicular extract during the first ave days of pregnancy

2 As the pregnancy proceeds from the first to the fifth day the injection of much larger amounts of the followiar extract is necessary to interfere with the cour e of the pregnancy

3 From these observations it seems probable that there is at least a difference in function between the follocular secretion and that of the corpus luteum

HARVEY B MATTHENS M D

LABOR AND ITS COMPLICATIONS

Bailey II Trial Labor in the Treatment of 477 Cases of Contracted Prives Am J Obst & Gynee 1920 XII 550

In trial labor in 477 ch es of contracted pelvis the low flap cervical section was done when the head did not engage. There were fifty nine casarean sections with no maternal deaths and three infant deaths. Of the twenty two elective sections four teen were low flap operations. Four patients had a postoperative fever. In three the wound was infected In two cases in which a vaginal examination was made there was no puerperal morbidity

Thirty seven patients were subjected to section following trial labor. Of these thirty five were oper ated upon by the low flap method Eleven of the group had been examined vigitally. Thenty one had a fever of 100 4 degrees I or higher for two days or longer In four cases there was a fever for two days in twelve for less than his days in one for six days and in four for eight days. In twenty eight cases with a postoperative fever the wound healed by primary union. In two cases it broke down, and in seven a stitch abscess developed. Only one of the patients had a serious postpartum condition. In most of the others the fever occurred in the first few days following the operation. Protection of the incision will eliminate some of the infections as it is probable that they occur when the child and the membranes are brought through the wound. The complications that usually follow the classical section.

Banister J B The Place of Induction of Premature Labor in the Treatment of Contracted Pelvis Brit M J, 1926 II 519

The author states that casarean section is being employed too often in the management of pregnancy complicated by contracted pelvis. From his experience in 745 cases of contracted pelvis in which the induction of labor was done be draws the following conclusions.

- The wider use of induction of labor in cases of contracted pelvis should be urged and is especially necessary today in view of the widespread employment of cosarean section. It should be urged, furthermore because it is simple, safe, and un accompanied by untoward complications and sequele.
- 2 Premature induction of labor is not to be de cided upon lightly but should be dependent upon very careful investigation and frequent examination
- 3 It affords the only actual test of the power of the uterus under conditions which imply a reason able chance of the survival of the baby
- 4 It is an attempt to procure what is rightly regarded as the bighest aim of the true obstetrician—a natural parturition Harvey B Matthews M D

Spalding A B Limitations for the Casarean Operation Northwest Wed 1926 xxv 526

Spalding reports on 2 000 consecutive birth rcc ords of the Board of Health of San Francisco California One thousand four hundred and eighteen (71 per cent) of the births occurred in hospitals In 2 020 bospital confinements at the Stanford Hospital in the period from 1918 to 1926 the maternal mortality was o 6 per cent and the fetal still birth mortality 2 per cent. In these 2 020 cases, 160 cæsarean sections were performed one in every twelve cases, with a maternal mortality of 2 4 per cent and a fetal still birth mortality of A per cent When the operation was done on serious ly ill patients there was an increase in the maternal mortality Of fifty one patients with eclampsia fourteen were treated by cosprean section with a maternal mortality of 28 5 per cent whereas in the cases of twenty seven who were delivered spon taneously or by forceps or version the mortality was 19 9 per cent The fetal mortality was 28 5 per cent in the casarean section group, and 1. 2 per cent in the other group

In the clime service of the Lane Hospital there were minety three casarean sections in 3,77° con finements, or one in every forty deliveries. There were six deaths in this group a maternal mortality of 6 4 per cent as compared with a mortality of 1 2 per cent in cases with other types of operative de livery and a mortality of 0 19 per cent in cases of spontaneous labor. Three of the six deaths in the cases of cessrean section were associated with eclampsia and one was due to acute miliary tuber culosis. Therefore only two maternal deaths a mor tality of 2 1 per cent were chargeable to cesarean section.

The patient with eclampsia is such a poor oper ative risk that instead of being benefited by operation she is distinctly harmed by it

CHARLES I DUBOIS M D

Williams J W Cæsarean Section at the Johns Hopkins Hospital Northwest Med 19 6 xxv 519

The prime indication for casarean section is dis proportion between the size of the fetal head and the pelvis. All other indications are of secondary importance

The mortality increases from practically nothing when the operation is performed at the proper time before or just after the onset of labor to ro or rs per cent when it is done late in the second stage

Sterilization by supravaginal amputation of the uterus with burial of the cervical stump is advised to prevent repeated sections on the same patient and to overcome the mechanical effects of uterine myomata obstructing labor. It is indicated also when signs of infection are present. The convales cence following this relatively severe operation is much more satisfactory than that following the simpler classical section because the involuting puerperal uterus does not offer ideal conditions for the combatting of infection.

At the Johns Hopkins Hospital, Baltimore the classical operation is restricted to patients upon whom it can be performed at an appointed time be fore or at least not later than six hours after the onset of labor. In all other cases, especially those with clinical signs of infection, the supravaginal amputation is done. Since adoption of this plan, only two patients have died from infection following the classical section and in a series of ninety five radical sections there was only one death from infection.

In fifty cases in which casarean section was done during the past ciphteen months, Harris of Williams' clinic made cultures with a sterile cotton swab in troduced into the lower uterine segment immediately following the birth of the child and before the fingers entered the wound. He found them uniformly sterile in all elective sections and constantly positive whenever more than six hours had elapsed letween the onset of labor and the time of the operation whether the temperature was elevated or not. In the positive cultures the predominating

bacterium was the streptococcus, which occurred both in the nerobic and anaerobic and the hamolytic and non hamolytic varieties

Williams agrees with Krong, Beck and DeLee as to value of the low cervical section. When the time for the elective section has passed the low operation gives results which formerly could be obtained only by a radical operation and sometimes obviates the sacrifice of the uterus.

In 28 000 obstetrical cases there were 363 cresarean sections an incidence of 13 per cent or one to every sevent) seven admissions. This is extremely con servative considering that one half of the patients were negroes in whom the incidence of pelvic abnormalities approaches 40 per cent.

Of 142 sections 80 per cent were done because of disproportion due to contracted p lus. The fre quent employment of section in placenta prævia eclampsia breech and occiput postenor presentation is a serious abuse Charles F DuBois M D

PUERPERIUM AND ITS COMPLICATIONS

Goodman S J The Treatment of Puerperal Sepsis Ohio State W J 1926 xm 849

The prevention of puerperal sepsis is far more important than its treatment. In the presence of in fection the uterne curette is a very dangerous in strument. When obstetrical procedures are carried out with the same judgment and caution as major operations puerperal sepsis will cease to occur. In the presence of puerperal sepsis conservations in the procedure of choice operative interference is seldom if ever justified. Conservative treatment should consist in prolonged and absolute rest fresh air good food and good nursing erie. Sera and intra venous injections of chemicals have been dis appointing.

In conclusion Goodman says that the present puerperal death rate is a distrace to the medical profession but there is little likelihood of any in provement in the statistics until the members of the profession learn to make a correct diagnosis and to recognize the cases in which operative intervention is necessary. Havyn B Martnews HD

NEWBORN

Blanco L V and Paperini H Meningeal Hem orrhage in the Newborn J im W iss 1926 lyxxvii 1261

From the standpoint of the symptoms the authors classify intracranial harmorrhages of the newborn as extradural subdural subtrachnoidal and intracerebral

The subdural hemorrhages are the most important being the most frequent and most to be feared They occur as the result of forceps delivery and version and as the result of pressure on the head as it traverses the pelvis. They have occurred also in cases of spontaneous and easy birth and in the fetus extracted by exestrean section. It is possible that tetanic contraction of the uterus abnormal fragility of the brain capillaries and infection or toxic diseases are factors.

There are two stages in the symptoms, that of excitement due to the increase of internal pressure and that of paralysis or paresis due to injury and exhaustion of the nerve centers. The newborn at first restless soon becomes anotheric and sleepy

Asphyxia the result of meningeal hamorrhage is often incorrectly stated to be the cause of many still births

Hamorrhage is the most f equent cause of con

vulsions in the newborn

Continual pain is of great importance The

Continual pain is of great importance. The authors state that any newborn child that complains is subject to a grave illness and very frequently this is a meningeal harmorrhage.

In the cases reviewed by the authors interus was a frequent symptom. It appeared between the second and third day. Deluca of Larate's climic says that iterius in the newborn is usually due to meningeal hamorrhage produced during birth.

Lumbar puncture an menangeal hamorrhage ordu narily confirms the existence of such hamorrhage and is probably the surest of all diagnostic measures When lumbar puncture y selds a uniformly hemorrhage with the manageal hamorrhage is usually correct. When the puncture itself produces the hamorrhage the fluid is not uniformly hamorrhage is usually correct. When the puncture itself produces the hamorrhage the fluid is not uniformly hamorrhage. If the fluid in such eases is centrifugalized it becomes quite limply diverse in me inigeal hamorrhage it remains yellowish (xantho chromic). The centrifugalized fluid from cases of meningeal hamorrhage shows altered red blood cells or ensials of bematic pisament.

The possibility of a complete cure is doubtful and the prognosis as to life is very unfavorable if the harmorrhage occurs in the first twenty four hours The sequelæ produced include diocy imbecility mental debusty epidepsy, spastic diplegia and

hemiplega
The treatment may be medical or surgical. The latter is possible only when the harmorrhage is localized to ecrebral areas having focal diagnosite signs. It wares from simple incision of the cranial suture his to trephining and cranicolomy. Medical treatment consists in measures to diminish the cranial pressure and effect hemiostass. These two objects are both accomplished by spinal puncture which may be done several times a day if necessary. The intraspinal injection of normal horse serum in does of from 10 to 30 c. to m too of three solution by subcutaneous injection in doses of from 10 to 30 c.c.m repeated twice in thenty four hours is advised.

CHARLES F DU BOIS M D

GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

Williamson C S Further Studies on the Trans plantation of the Kidney J Urol 1926 TVI

Williamson reports a continuation of his studies on experimental transplantation of the kidney In most of his cases the kidney was placed in a pocket in the neck and its artery and vein were anasto mosed to the carotid artery and the external jugular vein respectively. The technique is described in full In a number of experiments Carrel's method was followed, the kidney was transplanted into the ah domen and circulation re established through the aorta and vena cava

All autogenous transplants were made into the cervical area. The excretion of urine was at first slow and periodic, but rapidly increased and within a few hours amounted almost to a small stream This condition did not last unless the remaining kidney was removed at the time of the transplanta tion Williamson found it hest to remove the normal Lidney hetween the third and fifth day and thus guard against surgical accident to the transplanted organ The longest time of survival of the autog enous transplant was nine months. Death was due usually to poor drainage caused by cicatricial contraction of the ureter and overgrowth of the ure teral opening by the skin In many cases the urine excreted by the transplanted Lidney was normal hut it sometimes showed casts and usually contained albumin The urea content and the rapidity of ex cretion of phenolsulphonephthalein were normal The quantity of urine during the first few days ex ceeded that excreted by the normal kidney

The transplanted kidney was examined histolog ically to determine its condition at different stages During the first eighteen hours there was slight cedema of the tubules with rather marked congestion of the cortex The tubules and glomeruli were normal but the fatter were somewhat congested The tubules contained a varying amount of hyaline like material which the author considered to he coagulated blood serum although he was unable to account for its presence. There was little change in the histological appearance of the transplant Fail ure of function hegan when hydronephrosis and in

fection appeared

For homogenous transplantation the donors were chosen at random and there was slight possibility of breed or blood relationship. In most of the experiments urine was beginning to he discharged at the conclusion of the operation and during the first day the amount excreted was often as great as, and sometimes greater than the combined output of both normal Lidneys would have been. The specific gravity however, was often low The homog enous transplant seemed to function perfectly for from one to ten days If the normal kidneys were in place, however, the concentration of blood urea was much decreased The first sign of abnormality, usually noted on about the fourth day, was a slight increase in the size of the kidney. The rate of ex-cretion then began to diminish, this sometimes resulting in the rapid establishment of anuma If the normal Lidneys had been removed the urea nitrogen in the blood increased. Diuretics were then ineffec tive and death ensued from uramia from forty eight to seventy two hours after the onset of anuma

Examination of the transplants was made at intervals Histological study indicated that the glomeruli first showed abnormality and then the tubules The first glomerular change consisted in an infiltration with lymphocytes which steadily in creased until a few red blood-cells were seen escap ing Later, the predominant changes were in the glomeruli or in the tuhules, depending apparently on whether cessation of function was rapid or rela tively slow. At the time that the tubules showed in filtration and cellular degeneration in ascending infection appeared So far as the author has been able to determine, infection does not begin until the physiological changes in the transplant hegin to impair and diminish the urinary output

Only two experiments on the heterogenous trans plants were performed. The donors were goats and the recipients dogs In hoth cases the recipients died within a few minutes after the release of the circulation through the transplants, apparently from

anaphylactic shock Histological examination showed that the organ was filled with clumped red blood cells which appeared to be plugging the vessels

There was no evidence of clotting

The author attributes the survival of the homogenous transplants to the biological reaction of the recipient and the varying length of life, especially in those reported by Carrel, to a hiological relation ship between the donor and recipient Williamson surgests also that the biological reaction of all tissues may or may not correspond to that of the blood

The author sees a possible surgical application of his study and believes it possible that a healthy kidney removed from a subject recently dead may be successfully transplanted if studies previously made have shown compatibility of the blood

Fev B The Functional Results of Retention in the Renal Pelvis (Les retentions pyéliques fonc tionelles) Ar h urol de la clin de Necker 1926 V

Retention of urine in the pelvis of the kidney must not be confused with distention of the pelvis. It is due usually to a functional disturbance of the pyelo ureteral motor apparatus which controls the evacua tion of urne from the rend pelvis to the biadder. The emptying can be studied by pyeloscopy or by fluoroscopy of the renal pelvis filled with an opaque fluid.

the year of Truchat make a pyeloscopic examination of the ra functional examination but never on both sides on the same of this are noticed as cathletering the results injection of the pelvis. The prostion of the presents injection of the pelvis. The prostion of the uterier is determined by the we of an openium sound. The injection of sodium include which is made with a syringe is stopped when the pelvic shadow appears distinctly outlined. A plate or a tracing of the image is then made. Gende injection of a little flu d. in done while the sound is slowly withdrawn to reveal any uterieral kind or include.

If execuation is slow its progress is followed fluoroscopically only every two minutes. The move ments noted are indistinct pelvic contractions which when yery accentuated as in certain hyperkinetic pelves resemble mixing movements and an evacua tion movement. At the ureteral mouth the shadow lengthens and forms a cone shaped cui de sac with its base toward the renal pelvis and its apex toward the ureter. This cone is from 1 to 2 cm, high and at its base is scharated from the shadow of the renal pelvis by a furrow. The opaque fluid enters the urcter by rapidly forming a lumbar smidle. The original regular pelvic shidow then returns until the next contraction The contractions recur at the rate of from two per second to two in three seconds until the fluid is entirely evacuated. Even rapid emptying is not continuous. Each bolus forms at the level of the so called ureteral bulb

The evacuation time (from two to eight minutes in normal pelves) is an important criterion of the pelvic motor action. As the time varies with the cipacity of the pelvic the fluid injected is measured. The formation shape and rhythm of production and evacuation of the ureteral bulb should be noted. The data obtained in the first few minutes of the extimation are generally sufficient to indicate the character of the evacuation and to show the empty interior.

The abnormal conditions caused by pycloscopy evangerate but do not create the pelvic movements I eristalsis originates principally at the ureteropelvic juncture also perhaps in the calyces and certainly in the ureter.

Normally the fluid didates the ureter to the end or the sound where contractions arise which force the fluid into the blidder. Forcing the fluid across the ureteral neck by increased pressure abays cruses pain. The rend privis normally contains little turne but has a reservoir function. Dividing the time that has a reservoir function. Dividing the properties of the sphineter causes a dynamic pelver retention.

Pelvic retention is diagnosed from the clinical symptoms the findings of ureterial cutheterization and the findings of a pyeloscopic study of the pelvic motor action The pathological pelvis shows changes of filling and emptying. A large residue in a distred pelvis is indicated in the roentgen picture by seat tered and movable flakes on a large diffuse shadow with pala outlines. The ureteral bulb formation may be absent or sluggish or occur only after inter-als of many second. The bulb form may be irregular and show perminent deformities.

Cuyon found in the renal pelvis as in the bladder aseptic septic complete incomplete acute chronic temporary and permanent retentions I ey classi fies retentions as complete or incomplete and with or without distention. Duval and Gregoire dis tinguish (1) acute retentions without di tention (closed hydronephroses) and (2) retention occur ring in the course of a chronic retention (intermit tent hydronephroses) Fey and I ruchat call these (1) acute definite retentions of mechanical origin and (2) acute transient retentions of spasmodi origin. The latter the ordinary renal colies are due to spasms of the pelvic sphincter. The prinful crises are symptomatic of a lesion of the excretory apparatus (pelvis ureter) such as pyelo ureteral nephroses and the migration of caseous debris hydraids stones or blood clots. They may be pro duced also during tests of the pelvie capacity and during pyelography by tension on the pelvie walls from slight over filling The pun is due to spasm

A contracted ureter causes attacks analogous to intermittent hydroncyhnous. Such acute er es are of a congestive or pasmodic origin. Renal colic construct after nephrectomy when a stone was left in the ureteral stump. Distentions principilly of a mechanical origin have developed insidiously without producing renal colic. The panitul spasms generally occur in indistended pelves. The pain is most severe in small pelves develops alony in large pelves and in large sacs is practically negligible becau e the fluid flows toward the bladder before

the pun occurs. Whatever the origin of the renal col c the spasm produces in return retention in the renal pelvis. If the spasm is transient and mild the retention is minimal and there is a mipid return to normal. If the spasm is prolonged the retention reaches or passes the physiological capacity of the renal pelvision and becomes itself a cause of spasm. Thus there is formed a vicious circle which prolongs the pindle of the renal pelvision of the proposed of the renal pelvision of the renal pelvision of the renal pelvision of the renal pelvision of the renal returns that upon all syndrome of internation the decrease the pelvision of the renal return the pelvision of the pelvi

The ruther has never made a pycloscopic examination at the height of a crip. In a study of the pelvic motor action between crises valuible information regarding the pelvis and the cause of the spasin mily be obtained. In mo t retentions there is no renal tumor. Such a tumor occurs only

pelvis Prolonged renal colic is evidence of acute

retention in the renal pelvis

in advanced stages of gross retention with dis-

Chronic complete retention is characterized by absence of contraction. The renal pelvis is filled without pain and after the withdrawd of the cath eter no movement occurs. The shadow form in the roentgen plate remains no bulb is outlined. Oh servation for from one half to one hour shows no emptying. The opaque fluid is gradually diluted he the secreted unne and on the following day the shadow in the roentgen plate is gone. Secondary deformities due to the distention may produce mechanical obstruction. In three cases the author was obliged to recarbeterize to empty the fluid.

Chrome meomplete retention may show (1) slight returdation of emptying (usual in pyelonephritis), (2) marked returdation of emptying with slow for mation of the ureteral bulb (3) a residue, or (4) intermittent retention. In the type with residue the emptying begins normally with distinct contractions but the boliuses form progressively faither apart and finally are apparently stopped, the opaque mass their remaining unchanged for from fifteen to thirty minutes. In other cases the residuum not filling the pelvis persists for some time only at a cer turn point and may be mistaken for slow emptying. Intermittent retention occurs in cases of movable

kidney with kinking of the ureter

Retention and distention are distinct, but retention often precedes and leads to distention

Acute retention often leaves no distention, but always is followed by some excitation of the motor action (exaggerated emptying) or incomplete retention The pelvis may be dilated or normal but pycloscopy constantly shows disturbance of evacua tion. Hence the pain is due, not to distention, but to a spasm in a functionally disturbed motor appa ratus Dilated pelves may empty very quickly and undistended pelves may show retention. The dimensions of the pelvis are difficult to appreciate from the pyelographic image. The capacity of the pelvis varies greatly in the same and different persons Small deformities of the calvees are un important as they depend largely on the incidence of the normal ray and the relation of the calvces to the plate Pyelographs in series show that the physiological contractions modify the image of the pelvis and calvees A 'T' insertion of the ureter in the pelvis which is not rare in normal persons and a swan neck prolongation of the pelvis noted at the moment of the formation of the ureteral bulh have no pathological significance

Chronic retention and distention do have a constant relation to each other Chronic retention with out distention is more frequent thrin distention without retention. Both arise from a change in the pyclo ureteral muscle. Retention is due to a disturbance of motor action and distention to a disturbance of motor tone (dilatation from aton). Retention is more painful than distention. The motor action may be the first to return to normal Marked distention seen in a pyelograph suggests.

the loss of all pelvic contractility. When dilatation is absent or slight the most exact information with regard to therapeutic indications and prognosis is furnished by pycloscopy. Hence the author inquires not whether there is retention with or without distention but whether the retention is complete or incomplete and what its decree may be

Retention in the renal pelvis may be caused by mechanical factors, congenital malformations, dila faction secondary to infection or atony of the ureter and renal pelvis, and spasmodic ureteral obstruction by a bypertrophied circular muscle at the lower end of the ureter. Under certain conditions such as when it is situated at irritative points and in cases of spismophilia a calculus or an abnormal artery may excite motor disturbances levding to spasm. There are irritative points which if repeatedly stimulated, cause a disturbance of the contractility of the renal pelvis leading to chrome retention.

Calculus is an important cause of acute spasmodic retention and seems sufficient to produce all of the disturbances of chronic retention. The retention is generally more marked than the distention. Lithiasis is as ociated with selerosis and more or less infection

of the renal pelvis

According to the findings of pyeloscopy, an ab mechanical obstruction The line persists clearly in spite of bulb formation, but the fluid passes well

and evacuation occurs normally

A factor in the development of hydronephrotic crises is an aberrant artery. Such an artery is usually fixed in the ureteral wall by fibrous tissue rich in nerves. Section of the artery stops the crises

Most movable kidneys have no painful crises in some the pelvus is dilated Movable kidneys empty normally in spite of accentiated plosis, or empty poorly or show intermittent incomplete retention due to transitory mechanical obstruction. When the kidney is prosed the bolises cease to form, the bulb is not outlined and all pelvic contractions stop. Hence ptosis may lead to retention through dynamic disturbance rather than mechanical obstruction kinks and T shaped junctures of the ureter with the pelvis may prevent emptying.

The author has never studied retention in parietal lesions (strictures) by picloscopy because of the fear of causing pain and reflex disturbances of mothity Strictures occur normally after slight contraction of a sigment of the ureter and are not pathological unless they are noted repeatedly.

The evolution of pelvic retention is characterized by (1) a series of painful crises (2) the intermittent appearance of a tumor with persistent attacks of pain, and (3) the appearance of a fixed tumor with more acute continuous pain v sensition of beaviness and a drawing in of the flank. When the attacks of acute spasmodic refention first occur the dimensions of the pelvis and pelvic evacuation are normal. The fatigue of the pelvic musculature from the recurring attacks then becomes manifested by disturb ances in motor action (hyperkiness followed by

chromic incomplete retention) and by atomicity (distention). The spasmodic attacks their gradually become less frequent and finally cease. With loss of the pelvic motor retion, complete retention supervises and the pelvis becomes passively distended with urine. Hence spasm an important factor determining hydronephrosis usturbs the pelvic musculature and the emptying of the pelvis by its duration and repetition and leads to atome distention.

Propenhiosis is caused by infection which agera vates pre existing retention (infected hydrone phrosis) or causes retention (pyelonephritis) In the first instance the infection increa es the dis turbances of pelvic motor function and hastens complete retention. In the second instance it corre sponds to an ascending or descending infection of the ureter and renal pelvis. In pyelonephritis the infection leads to retention by causing a functional dis turbance of the emptying of the pelvis. The muscles subjacent to an inflamed serous or mucous membrane may be affected functionally Long persisting infec tion causes infiltration and thickening of the walls the formation of kinks and lengthening of the ureter resulting in an inflammatory stricture across which the purulent urine escapes with difficulty. As ure teral catheterization is usually possible the me

chanical factor seems to be of secondary importance The open py onephrosis is more common than the closed In these conditions pyeloscopic examina tions will show all of the phases of incomplete and complete chronic retention with and without distention. As the relation between the degree of in fection and the delay in emptying is almost constant a vicious circle is established which ends in complete pelvie retention and distention By pyeloscopy the author has noted that pyelonephritis with good motor emptying is generally cured by the usual therapeutie measures (pelvie lavage vaccination etc) if eoli bacilluria does not result from an intes tinal condition such as appendicitis colonic stasis or helminthiasis and that when the pelvis empties poorly the usual treatment is often of no benefit

poorly the usual treatment is often of no benefit.

The therapeutic indications in pelvie retentions are as follows

ASEPTIC RETENTIONS

- 1 Acute spasmodic retention without chronic retention is combated by medicinal antispasmodics suppression of the irritative point or renal enervation. First the general condition must be improved Bensyl benzoate and belladonna are indicated to relieve the crises. If medical measures fail removal of the irritation point (section of an aberrant artery removal of a stone nephropexy) are indicated to relieve the pain Papins enervation breaks the reflex are which causes the spasm. On pyclocopie examination Papin noted favorable emptying after this operation.
- 2 In incomplete retention the irritative point must be eliminated but whether by antispasmodies or by renal enervation is an open question. When the motor action is satisfactory the retention and

distention may regress and the pelvis recover its integrity. Hence measures to free the pyelo ureteral region such as section of an abnormal ar tery, prelotions for the removal of a stone nephro pery and the correction of kinks are indicated. I listic operations give unsatisfactory results and are associated with the danger of destruction of the principal motor center in the hulh region with loss of the remaining motor efficiency.

3 Complete retention requires nephrectoms Conservative measures fail

SEPTIC RETENTIONS

r Complete retentions whether associated with infected hydronephrosis or a dilatation pyonephritis have the same outcome and demand nephrectomy When possible the nephrectomy should be primary In other cases it may be preceded by nephrostomy

2 Incomplete retentions necessitate treatment of the infection If the retention is primary suppression of the cause (stone abnormal artery ptous etc) is important. Recovery may be hoped for The infection disappears either spontaneously or under treatment. If the infection in sprimary, the condution usually evolves toward ponephoiss and requires an early nephrostomy before complete retention becomes established. Early nephrostomy probably eacts favorably on both the infection and the retent in It places the pelvis at rest prevents distention may permit recovery and disinfection and has a flavorable influence on the motor disturbance.

WALTER C BURKET M D

Beer E Urle Aeld and Uratic Stones In the Aid ney-Urle Aeld Showers and Their Diagnosis Surg Gynec & Obst 1926 thm 436

Beer calls attention to the difficulty of recognizing uncleand stones in the upper unnary tract in the Yany plate. Even with the use of the Bucky screen small stones composed of une and may be missed. Beer has had no success in rendering these opaque stones visible by coating them with opaque.

solutions such as argy rol

An analysis of 156 stones removed from the kidney during the past four years in Beer's clinic showed that 10 per cent of the stones were composed of almost pure unc acid with only traces of calcium salts. Hence we are running the risk of diagnostic error in approximately 10 per cent of the cases of kidney stone. Beer reports six recent cases in which the diagnosis was made by using all of the usual methods of examination in addition to the demonstration of a filling defect. Usually it was confirmed by obtaining a positive scritch mark on a wax whalebone bougie passed into the suspected kidney.

These studies show that sizable stones failing to show a shadow on the \(^1\) ray plate are not at all in frequent in the upper urinary tract and can be recognized only by the most careful methods of study. Most of the patients with such stones has suffered for a long time. The most valuable objective diagnostic criteria are a diminished output of indigo carmine and a defect in the pyelographic filling of the pelvis on the side of the stone

Beer describes also a group of cases characterized by showers of uric acid which produce a chinical picture similar to that due to stone in the kidneytypical colics on one or both sides associated usually with the appearance of red blood cells in the urine On standing the urine deposits crystals of uric acid which adhere to the sides of the container The freshly voided specimen shows no uric acid crystals These are precipitated in passing down the ureter become redissolved in the bladder and pass out in solution The mechanism by which this is accom plished is explained by Beer on the basis of the behavior of the reversible colloids of the urine On several occasions on which specimens obtained by ureteral catheter from one side have shown a pre capitation of crystals specimens obtained from the other side have shown none. In a recent case the urine from the right side was full of the e crystals while that from the left side precipitated none This condition has been found repeatedly

The diagnosis can be made only by allowing the unne to stand preferably in a sterile container, for from forty eight to seventy two hours. Specimens are sometimes so highly acid that they will remain for months without putrefaction. Occasionally though rarely, cystoscopy reveals une acid crystals on the floor of the bladder. In such instances the colloidal reversal had not had time to take place

It is not claimed that all patients whose urine precipitates unc acid on standing have had recent attacks of ureteral or kidney cohe. It is believed however, that when patients in whom the X ray exystoscopic, and pyelographic studies have heen negative complain of typical ureteral and kidney colic and their urine precipitates uric acid crystals on standing, there is some connection between the latter phenomenon and the syndrome of which the patient complains. HARNA FORMER MD

Roseno A Postoperative Hæmorrhage Following Nephrotomy and Its Frevention (Die Nachblu tung bet Nephrotomen und thre Verhuetung) 50 Tag d deutsch Ges f Chir Berlin 1926

The danger of hæmorrhage after nephrotomy is very great Hæmorrhage occurs in 0 9 per cent of the cases and in 5 9 per cent of these it is fatal. Com bating it by through and through suture is not sufficient and injures the parench man of the kidney. The blood vessels which are cut in nephrotomy penetrate into the interstices between the papillæ in the parenchyma and in the columns of Bertin where they he about 1½ cm apart and give off branches into the corresponding pyramids

Where these vessels are cut through the parts supplied by them are destroyed. A ligature at the point of severance in the Bertin's ligament does not increase the loss of parenchyma. The loss it causes is only a fraction of that produced by the through and through suture which is followed by atrophy and infarction.

Therefore in nephrotomy the easily visible vas cular lumina in the columns of Bertin which have been cut through should be sought, caught with small forceps and ligated

Before such ligations were done in clinical cases they were done on the kidneys of goats. The author describes the specimens in detail. They show that the bealing of the wound was very good, the in farction as compared with that following suture was slight, and the destruction of viable tissue was minimal.

In thrty three cases in which nephrotomy was performed by the old method in the period from 1913 to 1926, postoperative hemorrhages occurred in three In five, a secondary nephrectomy was necessary. Four of the patients died. In the five cases in which the new method of nephrotomy was used there was no hemorrhage. Stettiner (Z)

Lipshutz B and Hoffman, C Renal Arterial Variations and Extraperitoneal Abdominal Nephrectomy Ann Surg 1926, lxxxiv 525

The frequent variations in the automical types of the renal blood vessels found at autopsy and at operation are of great importance to the surgeon. The manner of development of the kidneys predisposes these organs to anomales. The renal arteries vary in their number, origin, course, and anatomical relations. Kidney abnormalities are often associated with abnormal blood vessels. There is some variation in the arterial supply in from 20 to 33½ per cent of cases.

Two specimens are described in detail. The arteries and veins were unusual in number and origin. The ventral lip of the hilus was absent on both sides. Both specimens showed hypertrophy with moderate ectopia.

In the performance of the usual operation for the removal of a kidney, there are many possibilities for injury. Injury to the parietal pentoneum, the execum, and the colon, bemorthage from an acce.sorvenal artery or an abertant vein and tearing of the vein cava inferior have been reported. These possibilities are practically eliminated by the extra pentoneal abdominal incision. Such an incision is especially valuable for the removal of large cysts or tumors and its use is associated with less danger of metastasis because the renal vein can first be ligated fits practical value has been demonstrated also in the treatment of traumatic lesions and horseshoe ladney.

Joseph E The Removal of Deeply Situated Ureteral Calculi (Entferning tiefsitzender Ure tersteine) 30 Tag d deutsch Ges f Chir Berlin 1926

Deply situated ureteral calcult are often oper ated upon too late with the result that the kidney must be sacrificed later by secondary extripation In the futile hope that the stone which has traveled a distance of 28 cm will pass the remaining few centimeters the patient and his physician frequently delay treatment too long. In the meantime the kidney is destroyed by infectious hydronephritic congestion. Therefore in cases of deeply situated ureteral stones the author proceeds as follows.

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Medical management is first attempted with the pushing of fluids diuretic measures such as the administration of glycetine lemonade and the hy pophysin injections recently recommended by Berg mann

If medical measures fail an attempt is made to remove the stone from the mouth of the ureter by means of the cystoscope The best method is the introduction of a thin ureteral catheter which can be left in for from twelve to forty eight hours. The ureteral wall becomes softened and slippery so that eventually the stone may fall through into the blad der or because of its adherence to the catheter can be drawn into the bladder The outlook is still more favorable when two thin catheters can be introduced into the urcteral opening. If it is impossible to introduce a catheter past the stone it is sometimes possible to insert a whale bone bourse and allow it to remain in The author warns against splitting of the ureteral orifice with scissors or the cautery of the operating cystoscope in cases of ureteral stone as the trauma so caused not in frequently leads to complete closure of the ureteral lumen by swelling and produces severe septic phe nomena in the kidney Therefore such measures are not only useless but dangerous. When the calculus is visible in the ureteral orifice attempts to free it are unnecessary as it will usually free itself

If operative liberation of an intramural ureteral stone is indicated the incision usually employed to ligate the iliac artery is used but instead of making the outer third of this incision Joseph prolongs it transversely inward across the symphysis. In the lengthened portion the fascial sheath of the rectus is split and the muscle pulled to one side. The exposure so gained is satisfactors even in very obese patients The peritoneal cavity is not opened The midline longitudinal incision recommended by American surgeons and by Key is very convenient and gives easy access to the lower portion of both ureters. For this incision however the stone must be firmly fixed so that it will not wander unward toward the kidney when the nelvis is raised JOSEPH (7)

BLADDER URETHRA AND PENIS

Colby F II Bladder Symptoms from Congenital

Deformitles with Associated Nerve Lesions Report of Three Cases Boston W & S J 1926 excv 804

The author reports three cases presenting uro logical symptoms due to congenital deformities with associated ner e les ons Case i was that of a man 37 years of age who for

Case I was that of a man 37 years of age who for the past thirteen years had had difficulty in urnation A hermotomy done during this time was followed by retention and catheterization resulted in cystits Occasional cathetenzation then became necessary Four years later an operation for con traction of the internal vesical ornice was done and was followed by considerable riche. A few years later an appendectiony was performed and a small rectal fibroid was removed. Thereafter the bladder symptoms became progressively more severe. Dur ing the past ve ar continual cathetenzation had been necessary. Rectal control was poor and had been growing gradually, worse.

Ten sears ago the patient was found to have a spina bifid occulta with slight changes in the re flexes in the legs and a small area of diminished sen sation over the sacrum \times ray examination show the typical bony deformity associated with spina bifida On exposure of the bony defect at operation performed November o 1025 a mass of fat tissue investing a swollen sac of the dura was found. This lat mass was removed and the junt ion closed For three or four weeks after the operation the bladder was catheterized at regular intervals. The patient then began to void naturally and he has now no residual urine. Today the rectal symptoms are un changed and the Achilles reflex is absent but the numbores about the perineum and the back of the

thighs is less marked

The second case reported was that of a 22 year old girl who had been an invalid since infancy Extensive ulcerations made necessary an ampu tation of the left leg at the thigh and soon there after a partial amputation of the right foot. As long as the patient could remember she had had urgent urination and difficulty in the control of the bladder and bowel sphincters Four days prior to her ad mission to the hospital she had severe pain in the right lumbar region and retention in the bladder of 500 ccm of infected unne \ ray examination revealed spina bifida occulta with absence of the arches of the fourth and fifth lumbar vertebræ Because of the severe bladder infection and the bilateral pyelitis any attempt to repair the underly ing defect seemed impossible. Some relief was given by the use of an in lying catheter and irrigations but it was insufficient for proper bladder function

Case a was that of a boy of ry years who at burth had an imperforate amus. The anus was operated upon successfully but the patient had always been in delicate health. He suffered from frequent at teaks of pyelitis and his urine was never free from evidences of infection. \(^1\) Tay examination showed six lumbar vertebre but no coccy and a fused kidney on the left side. \(^1\) Operation was not regarded as advisable.

GENITAL ORGANS

Fronstein R and Meschebowski G Recurrence Following Prostatectorns by the Method of Freger (Ueber Readive nach der Treyer chen Prostatektomie) Zischr f urol Chir 1926 xx 22

In rare cases the disturbances of urination persist after prostatectomy or new ones develop. When this is due to insufficiency of the musculature of the bladder the condition is a purely functional recurrence. However, there is also the possibility that a correctly performed enucleation of the gland may be followed by a true anatomical recurrence. Adenomatous nodes arise from glandular remains left in the capsule. When renewed disturbance of urnation is due to incompleteness of the operation or a carcinomatous degeneration the condition is a nesudo recurrence.

True anatomical recurrences are very rare. To prevent them the tumor must be removed in dolo at the time of the operation, and after its removal a very careful search of the field should be made for nodes that may have been left behind. Recurrences are less frequent following the suprapubic operation than following, the permeal operation.

(RAULAN (Z)

MISCELLANEOUS

Hinman F and Redewill F H Pyelovenous Back Flow J im W 455 1926 IXXXVI 1287

In this article the authors continue their dis cussion of the condition to which they have applied the term pyelovenous back flow and report fur ther facts determined by experiments carried out since the publication of their previous articles ' The most important anatomical facts relative to pyelovenous back flow have to do with the relationship of the pelvis and its branches to the renal venous system The veins of the kidney in marked contrast to the arteries freely anastomose Particularly in the zone between the cortex and the medulla are rich venous arcades between the larger interlobar veins many of which are in very intimate relationship to the finer terminal branches of the minor calvees. At some of these terminal pelvic divisions the veins almost completely encircle the forms calvees. The venulæ rectæ in the medulla which are richer, so far as number and size are con cerned as compared to the arteriolæ rectæ, are also in very close relationship to the collecting tubules as well as Henle's loops and it is this particular area that must be considered with respect to certain aspects of pyelovenous back flow With respect to the tubular system and its relation to its blood supply, the definite zones of cortex and medulla are differentiated by reason of the renal tubule itself being confined to the cortex Henle's loop only penetrate, to a deeper level and it is between these two zones in the corticomedullary portion that the venous arcades exist, into which the radiating inter lobular veins drain

The two important portions of the ladney as emphasized in the foregoing anatomical discussion in which the penetration of pelvic contents into the venous system most readily occurs are at the acute angle terminations of minor calyees, where the pelvic mucosa is in intimate relationship to large venous spaces or in the collecting ducts, also in intimate relationship to rich venules. The differ intimate relationship to rich venules.

ence in appearance of a tubular back flow and a pyelovenous back flow can be demonstrated. The outline of the arcuste veins is characteristic of the latter. Tubular back flow is seldom seen except in the human and dog kidney. Ordinarily, there is a penetrition up the collecting ducts for only a short distance.

The dangers of pyelovenous back flow at the time of pyelography would be removed if the pelvis were first washed out with tenth molar sodium chlorideand then with sterile distilled water thus ionizing the cellular membranes because the pressure required to produce the back flow will be so much in creased that there will be practically no danger of the occurrence of pyelovenous rupture

The following factors are probably of importance in the occurrence of pyclovenous back flow dia pedesis osmosis and permeability of the membranes. The authors state in detail the technique of the cynements by which the existence of this condition is proved. The article includes interesting illustrations. Henry L. Synopp M.D.

Mixter C G Urinary Obstructions in Childhood 1nn Surg 19 6 lxxxiv 533

A complete urological examination should be made in every case with symptoms of urnary retention or py uria. In the author's cases the preliminary urnalists is followed by tests of renal function blood chemistry determinations the making of a cysto gram and cystocopy with pyelograms and ureterory grams. If phimosis and a small external meatus are eliminated, the three usual sites of obstruction are eliminated, the three usual sites of obstruction are the uretero pelvic juncture the vesical insertion of the ureter and in the male, the prostatic urethra A stricture at the uretero pelvic juncture and faulty implantation of the ureter in the pelvis are causes of hydronephrosis. If nephrectomy is not indicated a plastic operation may he heneficial. A ureteral kink may be found

Stricture of the ureteral opening in the hladder may be present with or without cystic dilatation. If cystic dilatation is present excision of the cyst is indicated. If fuguration is possible it is the method of choice. If there is no cystic dilatation shitting of the ureter from the orifice upward for 'y' in may give good results.

Diverticula are rare in children, but may cause obstruction at the vesical neck

Obstruction in the male urethra may be caused by folds forming valves and by enlargement of the verumontanum. More rarely, a congenital structure may be present. Two cases of congenital structure in the prostatic urethra were found due to faulty development. One case was operated upon but the other responded to dilatation. The bladder ureters and kidneys showed the typical results of obstruction.

Obstruction of the ureter may be caused by the external pressure of accessory vessels to the lower pole and reduplication of the renal pelvis and ureter Care should be taken to ascertain if the vessel is

the only source of blood supply to the lower pole. The operative procedure in ureteral duplication depends upon the requirements of the particular case.

Megalo ureter may be encountered in children and may be bilateral. Its etiology is still in doubt but the condition is usually considered to be consequently a careful study may show an obstruction especially in the prostatic urethra in boys. In the female urethrise even valve like folds may cruse an obstruction Operative procedures in time megalo ureter have been unsatisfactory because of the patient's poor condition. Sitting of the ureteral orifices may benefit but bilateral nephrostomy should be considered. Causin D Prixagal's M D

Hyman A The Clinical Aspects of Surgical Dis eases of the Urinary Tractin Children J Ural 1026 XV1 259

This article is based on a study of 150 cases of success of success of the unnary tract in children seen at Beer's cluic at the life Sinai Hospital New control of the success of the unnary tract in infancy and childbood during the last few years. While the early literature abounds in post mortem reports of such cases their recognition is now made easy during life by routine examination with small cubber cystoscopies.

Routine study of these cases was stimulated by Beer in 1907 and since 1917 bas been advanced by Hyman Kretschmer Himman Stevens Quinby Hyman Kretschmer Himman Stevens Quinby Lowsley Helmholz Bugher Thomas and Tanner and others Cystoscopes for the nork are from 9, to 12 cm long and have a caliber of from 0,5 to 12 cm long and have a caliber of from 0,5 to 12 cm long and have a caliber of from 0,5 to 12 cm long and have a caliber of from 0,5 to 20 cm long and have a caliber of from 10 cm long and 1

natrosis is seldom necessary. The patients whose cases are reviewed by the author ranged in age from 6 weeks to 14 years. The majority were between the ages of 4 and 8 years. Cystoscopy was performed 1345 times. Lessons closely paralleling those in adults were found. In 62 per cent of the cases the lessons were in the upper unnary tract. Of ninety four cases of kidney disease thenty-one were cases of pyelotis seven were cases of pyelonephritis ten were cases of tubercu losis and twelve were cases of neoplasm. Of forty eight cases of bladder conditions twenty eight were cases of chroinc retention. Fifty per cent of the cases were referred on account of persistent pyuma. He maturia in childhood is rather uncommon. Uno logical diseases of childhood may be masked by

intestinal and meningeal symptoms.

Pyura is the most common sign. In the cases of female children all specimens for microscopic and bacteriological examination must be obtained with the catheter. Very few instances of pyehrs in male children have been seen. Many cases diagnosed as

pyelitis without cystoscopy were found to have other more serious complications. The youngest child with pyelitis was a male 6 weeks old in whom jaundice was present for a week

Tuberculoss is very infrequent in children under 8 years of age. In over 85 per cent of the cases tubercle bacilit were demonstrated in the smear. Eight of ten cases showed a characteristic cystocopic picture. In eight cases, nephrectomy was done and followed by rapid improvement.

Hydronephrosis occurred in ten cases not in cluding twenty in which it was due to obstruction at the vesical neck. In one case that of a male child 6 weeks old there was a stricture at the uneteropelium juncture. Depherectomy was successfully performed. In sur cases classified as congenital there was a stricture at the polyco cultet.

A perinciplinitic abscess cortical abscess or car huncle was found in cleven cases. The diagnosis offers the same difficulty as in adults. The usual cause is a staphylococcus infection from a distant focus.

Male children are more often subject to unary inhann than female children. Of a sense of a coo than the collection of the cases renal calcult are blateral. Proceed of the cases renal calcult are blateral. Proceed to 70 per cent of the passed spontaneously into the blodder. In obstimate cases of creue is an accumination for stone should be made. Rectal examination for stone should be made. Rectal examination should never be omitted.

In tumor of the ladney hematuns app vr late and in the cases of children may often fail to occur it was present in four and absent in eight of the cases reviewed. The first sign in many cases i a large abdominal mass. Most cases are unoperable when they are first seen. In a per cent of the cases reviewed the condition was buileten!

By far the greater number of anomalies of the By far the greater number of anomalies of the trust can be upper part of the trust of the postenor until the postenor until the upper part of the trust can be upper part of the cases reviewed and a congenital devertination was found in three A marked primar as these cases shows how prone they are to infection. Persastent pyura should suggest the presence of a congenital anomally

The etiological factors of chronic retention in children are given by Beer as follows

1 Mechanical obstruction entravesical—congents a tal folds and strictures in the posterior uretime a pinpoint meatus, a contracted prepuce new growth intravesical—contracture of the neck of the bladder diverticalizm and stones

2 Neuromuscular brain disease spinal cord disease (spina hifida) spasticity of the sphincter with out definite neurological signs

The prognosis is unfavorable the patient suc cumbing to renal insufficiency and infection. Diverticula were found in three of the cases reviewed all those of young boys, one of whom was only 8 months old. The diagnosis is readily made by cystoscopy. Resection and transplantation of the ureter was necessary. In the series of ninety four cases of kidney disease, fifty operations were performed with a mortality of 10 per cent. Thirty of these were nephrectomies and the rest pyelotomies nephrot omies, decapsulations, and exploratory operations.

The author draws the following conclusions Diseases of the unnary tract in children are more frequent than we have been led to believe With few exceptions the fesons are as varied as in adults in a large percentage of cases developing pyuria the underlying factor is an anomaly of the urnary tract. The feasibility, safety and practical value of cystoscopy in the young are well demonstrated by the cases reviewed. When present day methods are properly applied, it is seldom necessary to resort to exploratory operation. The diagnosis of diseases of the urnary tract in children should be made in the cystoscopic room rather than, as happenss often, in the postmortem room. Harry A Powler M.D.

Mackenzie D W Malignant Growths of the Lower Urinary Tract Boston M & S J 1926 cvcv 811

The most important hladder tumors are composed of masses of epithelial cells of one type or anothei and are generally known as papillary epitheliomata and papillary carcinomata. These may be being or malignant Cases of malignant tumors are characterized by induration sloughing, and resistance to fulguration. As a rule the malignant tumor is sincle.

Hematura is an important sign necessitating a thorough investigation Of a series of 82 cases of hematura, the condition in 70 per cent was due to calculi, tumors, and surgical infections of the kidney Of 140 cases of malignancy, hematuria was the chief complaint in 75 per cent As vesscal carcinoma is a local disease and often remains local for a long time, its rational treatment consists in complete and radical excision. Every effort should be made to bring such cases for early examination and treat ment before the involvement becomes general. On account of the case with which cancer cells grow on account of the case with which cancer cells grow on denuded surfaces great care must be exercised in operating on vesical tumors suprapubically not to rubor sponge off the tumor cells.

Cancer cells contain the secret of cancer growth but must have for tumor growth the essential response of the host to furnish stroma and vasculature to permit them to organize and grow. If this response fails the lesion remains carcinoid or disappeurs entirely.

CLAUDE D HOLMES M D

Mann L T The Results of X Ray Therapy of Malignant Growths of the Urinary Tract Surg Gynec & Obst 1926 vlm 529

The author gives in detail a summary of the results obtained in cases of malignant disease of the urmary tract treated with deep \(\lambda \) ray therapy alone, by surgical procedures and \(\lambda \) ray irradiation, by radium and \(\lambda \) ray irradiation, and by a combination of all three procedures. Some of the cases were treated in the Mt Sinai Hospital, New York, others at other hospitals and others in private practice. The technique was essentially the same in all, high power machines with proper screening being used. The term "course" is used to signify a full erythema does received at the site of the malignancy

In the first group of cases, eleven of malignant growths of the kidney, postoperative treatment with the X ray did not show any hetter results than were obtained in a similar group of cases in which only

surgical treatment was given

The second group consisted of seventeen cases of carcinoma and two of papilloma. In only three of these was there any relief of the dysuna, hamaturia, etc. Life was not prolonged, and there were no cures.

The series of prostatic careinomata treated hy deep therapy included twelve cases. In two the dysuna, hæmatuna, and frequency were relieved for some time, while in the ten others there was only temportry rehef or none at all. Life may have been prolonged, but there was no decrease in the size of the timor mass

The author draws the following conclusions

The cure of malignant growths of the urinary tract by deep \ ray therapy is a very infrequent occurrence

- 2 Alleviation of the symptoms occurs almost as infrequently as a cure and in most cases is only temporary
- 3 There seems to be a greater prolongation of life in cases treated by deep \ ray irradiation than in cases not so treated \ CLAUDE D HOLMES M D

SURGERY OF THE BONES, JOINTS, MUSCLES TENDONS

CONDITIONS OF THE BONES JOINTS MUSCLES, TENDONS ETC

Krasnobajev T P The Treatment of Acute Ilæmatogenous Infectious Osteomyelitis (Uc ber Behandlung der akuten haematogenen unfektioesen O teomyelitis) Vory chrurgieslesky archiv 1925 viii 354

At the seventcenth Russian Surgical Congress held in Leningrad in 1925 the author discussed the principles of the treatment of acute osteomyelits and reviewed the results he had obtained in cases of

this condition in the last twenty years

The treatment should be as conservative and as simple as possible. In the acute initial stage, radical operative measures and general narcosts are contra indicated. Operation must be limited to in cision of the soft tissues to the periosteum under local anaesthiesia. In severe espite cases this in cision must be made before fluctuation is demonstrable. In mild cases simple aspiration by pune ture may be sufficient. Tamponade is sontra indicated but occasionally drainage with counter openings may be established for a short time. Following such treatment more extensive operations.

Care must be taken to improve the general con dition and to spare the tissues in the operative field. In epiphyseal osteomyclitis complicated by suppurative inflammation of the joints more extensive operative measures are indicated. However, in the cases of small children it may be necessary to restrict the treatment at first to simple aspirations In cases in which aspiration is insufficient in severe cases in older children and in cases in which the pus has broken through the capsule wall and has led to the formation of a phlegmon arthrotomy should be done Tamponade is contra indicated Resection is indicated in epiphyseal osteomyelitis only in cases of hip disease with gangrene and complete separation of the head of the femur After the sepsis has subsided early necrotomy with removal of all visible dead bone must be performed without waiting for the formation of an involucrum operative wound must then be sutured If the prop er postoperative care is given amputation and exarticulation are rarely necessary

The author reports his experience in 428 cases of acute osteomychits in children under 13 years of age. There were ninety six deaths a mortably of 224 per cent. The highest mortality 22 per cent was that of the group of 127 children under 2 years of are

The osteomyelitis involved the thigh and leg in 148 cases (forty eight deaths) the head of the femut in ten cases (one death) the ilium in tenny, cases (eight deaths) the scapula in seventeen cases (recovery in all) and the epiphyses in 127 cases Epiphyseal osteomy clitis involved the hip joint axist, nine cases (surteen deaths) the knee joint in thirty five (two deaths), the ankle in nine cases (no deaths) the clibow in two cases (one death) and the hand in one case (recovery). In the one case of involvement of the ribial epiphysis without involvement of the knee recovery resulted.

Aspiration of pus by puncture was done in nine teen cases (chiefly cases of hip and knee involve ment) with one death. Incision or arthrotomy were done in ninety one cases with fifteen deaths. Resection of the hip joint was done in eleven cases

with five deaths

Of seria four cases of epiphy seal osteomy elits in which bacteriological examinations were made cocci in chains were found in thirty six (streptococci in sixteen cases and diplococci in twenty). In the group the mortality was 16 per cert whereas in twenty seven cases of staphylococci infection the mortality was only 10.7 per cent. Altrov (2)

Meyerding II W Chronic Infectious Arthritis with Multiple Ankylosis of Joints and Complete Disability Surg Clin V Im 1926 vi 1301

A woman aged 30 ccars had been bedrudden for five years with polyatrucular arthrus. The left hip both elbows both wrists and the left thim both elbows both wrists and the left thim both elbows both wrists and the left thim were analysized in deformed positions. Within a period of cleven months three arthroplastics a Soutter operation an osteotomy at the base of the thumb and a disarticulation of a hammer toe were performed. At the end of that time the patient was able to wall, with crutches and braces and to do useful work with her hands.

Seeliger The Pathological Physiology of the Johns The Formation of Joint Mice (Zur pathologischen Ihysiologic dir Gelenke mausbildung) 50 Tay d denische Ges f Christian 1926

In a study to determine the still unknown factor in the etology of arthritis deformans the formation of joint mice and other joint conditions the author poul particular attention to the synoxia. Ninety seven per cent of the latter is fluid and 3 per cent is solid substances. The latter are in colloidal solution and are mucin like bodies cell structures from the inner surfaces of the joint. In inflammatory conditions the cellular content is increased. The reaction is allahine (Ta=84 joins). In cases of ar thritis deformans arthropathies and free bodies in the joints the alkalinity is reduced (Fa=87 ions).

flakes appear, and the coagulation point is reduced. The author sees in such changes in the synovia one of the causes of the conditions mentioned.

The flaking and the reduction in the alkalinity cause a dry synovits leading to changes in the cartilage which may advance to necrosis, as described by Axhausen Traumatic hiemorrhages with the elimination of fibrin also indicate a reduction in the alkalinity and lead secondarily to organic changes

These theories were proved by the author in a priments on animals. When the synous was normal, organic substances injected into the joints were absorbed without causing any damage where as when the alkalimity was reduced they produced the changes noted in arthritis deformans. Trauma also caused a shitting toward acidity which led to a decrease in resorption and marked changes.

In the discussion of this report BIER stated that he had always emphasized the importance of the synovia but was thinking more of its hormonal than its colloidal action STETTINER (Z)

Loehr W Ischæmic Contracture (Ischaemische Contractur) 50 Tag d deutsch Ges f Chir Berhn 1026

The first stage of ischæmic contracture resembles the cold congestion of Bier which is characterized by swelling coldness of the skin bluish discolora tion with possibly the formation of vesicles and more or less marked disturbance of sensation Primary nerve and vascular injuries are not always present On the other hand, Loehr always found a marked hæmatoma which, because of its diffuse coagulation in the tissues could not be moved and therefore under the tense fascia and skin, and especially under the plica cubitalis which has little elasticity acted as an obstruction to the circulation Supracondylar fracture differs from dislocation of the elbow in the fact that in the latter the hematoma extends posteriorly and is therefore less apt to cause ischæmic contracture

In the author's opinion the cause of ischemic contracture is the obstruction to the outflow of blood caused by a subfascial or subcutaneous hiematomic The clinical and anatomical findings in the muscles and nerves are secondary

In experiments on dogs rabbits, guinea pigs rats and mice it was found that the production of similar conditions resulted in ischæmic contracture with all of the subsequent changes noted in man Cross sections of the legs of the animals showed that the highly sensitive muscles were necrotic especially in the center of their muscle bellies as were also the small nerves and the vascular nerves running in these muscles but there was no thrombosis On the other hand the interfascial connective tissue and the large nerve and vascular branches embedded in it formed a peripheral belt surrounding the muscle bellies which were necrotic in their centers. Accord ingly there was here an active regenerative process Because of the secondary injury of the vessels and nerves the replacement of muscle is very gradual A guide for the treatment is found in the cause of the condition. When ischæma impends the hæmatoma must be removed at once in order to overcome the obstruction to the circulation before the development of paraly sis.

Subsequent examinations of a series of patients with supracindlylar fracture who were operated upon showed a very good functional result. Even in late cases treatment must not be neglected. All measures should be used which will improve the circulation in the muscle and stimulate the nerves to function.

Hickey P M X Ray Clinic on Leslons of the Vertebræ Ann Clin Med 19 6 v 95

Hickey calls attention to the fact that roentgein ray studies of the vertebre may establish (1) normal density and normal contour of the vertebre under consideration (2) decreased densities indicating a subtraction of the calcium content, which may or may not be accompanied by changes of contour from the usual normal, (3) an increase in density indicating additions to the calcium content of the vertebre with or without changes in



I ig r Roentgenogram of Case 7 Definite union of the third and fourth lumbar vertebra: I ateral film showed no angulation. History and \(\chi_{\text{riy}}\) findings suggest complete healing of a tuberculous or infectious process.

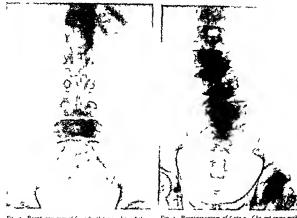


Fig. 2 Roenthenonram of Ca e 8 Octomyelitis of the hith lumbar vertebra secondary to primary infection of the right scapula

configuration All deductions as to the presence or absence of a pathological condition must be based on such findings

This article reports fourteen cases of lesions of the pine in which a roentgen ray examination was made and the findings were carefully checked Most of the case histories are supplemented with roentgenograms

Cases 1 and 2 illustrate types of compres ion frictures due to trauma In the anteroposterior roentgenogram of Case 1 there was superimposition of the shadow of the body of the first lumbar verte bra on the shadon of the body of the second lumbar vertebra with obliteration of the intervertebral space. A lateral film showed a triangular appear ance with the aper of the triangle apterior andings are characteristic of a compression fracture with an attempt at immobilitation through the irre tation from displacement. In Case 2 the antero posterior film did not offer conclusive evidence of the nature of the lesion but definite evidence of a mild type of compression fracture of the eleventh thoracic vertebra was supplied by the lateral prorection

Cases 3 4 5, and 6 were cases of tuberculosis of the some In Case 3 the roentgenogram showed

Fig. 3. Roemisenogram of Case 9. Cha cot spine with aprolement of the second third fourth and fifth lumbar vertebre. The ertra density in the area of the fourth and pith seriebre was caused by polared to impected into the pinal canal. The painless lesson was discovered when lumbar puncture was attempted.

coalescence of the seventh and eighth thoracic vertebrie and the shadow of an abscess on either ide. In Case 4 the anteroposterior roentgenogram showed definite loss of the intervertebral space be tneen the tnelith thoracic and first lumbar verte hre and the lateral projection showed slight in volvement of the anterior and upper edge of the second lumbar vertebra almost complete dis appearance of the body of the first lumbar verte bra and definite destruction of the lower border of the twelch thoracic vertebra. In Case 5 both the anteroposterior and lateral projections showed in volvement of the fifth lumbar vertebra Case 6 demonstrates the difficulties in drawing conclusions entirely from decreased density. The appearance was that of metastasis rather than tuberculosis at though the latter was subgested by the chinical his tory A search was made for a primary growth but none was found The lateral fim showed definite destruction of the body of the seventh cervical verte bra and definite thickening of the prevertebral in sues Operation revealed destruction of the seventh cervical vertebra with definite caseous material

In Case 7 the anteroposterior and lateral projections showed definite fusion of the third and fourth lumbar vertebra and the lateral view showed no angulation. Five years previously the patient had what was thought to be Pott's disease, but it may have been an infectious arthritis.

Čase 8 was a case of osteomyelius of the fifth lumbar vertebra secondary to osteomyelius of the right scapula The anteroposteror projection showed a decided change in the contour and density of the fifth lumbar vertebra and loss of the intervertebra space between the fourth and fifth lumbar.

vertebre

Case 9 was a case of Charcot spine. There were no symptoms referable to the spine, but Hickey has noted that in tabes the Y ray examination frequently reveals structural changes in the spine which were not suspected from the clinical history. The destructive lesion involved the second to the fifth lumbar vertebra. There were areas of increased and of decreased density and a definite change in contour.

Case 10 was a case of osteoclastic metastasis of carcinoma of the breast. The roentgenograms showed a decrease in density of the eighth and twelfth thoracic vertebræ and apparent telescoping

of the vertebral bodies

Cases 11 and 1º were cases of the osteohlastic type of metastasis of carcinoma of the prostate In Case 11 the malignancy was first manifested late in life 1 and the involvement of the spine was limited to the third lumbar vertebra. In Case 12 the condition began at the age of 44 years and the spinal metastases involved all of the lumbar vertebra and the pelvic bones. There was an irregular mottling indicating subtraction and addition of lime content. This is typical of the osteoblastic type of carcinoma secondary to carcinoma of the prostate.

Cases 13 and 14 were cases of multiple myeloma
The roentgenograms showed the multiple circular
areas of lessened density which are pathognomonic
of the condition
CHARISH HEACOCK M D

Konjetzny A Contribution to Our Knowledge of Perthes and Koehler's Disease (Zur Kenntnis der Perthesschen und Koehlerschen Krankheit) 50 Tog d deutsch Ges f Chir Berlin 1926

Following a study of fifteen cases of kochler's disease, two cases of Perthes' disease eight cases of necrosis of the semilinar bone and numerous cases of so called osteochondrius of the kine and efbow the uithor agrees with Axhausen that in the group of diseases mentioned we are dealing with a sub-chondrial epiphyseal necrosis with little or no destruction of curtilage. He demonstrated this in the roentgenogram and specimen obtained in a case of Perthes disease in a 17 year old boy in which the head of the bone was resected. Along the anterior saw cut there was an extensive subchondral necrosis resembling an infarction. The microscopic picture viso showed complete bone and marrow necrosis with a well defined margin.

The author has seen similar more or less wedge shaped subchondral necroses of the epiphyseal bone and marrow also in Koehler's disease Axhausen has called attention to the fact that, under favorable conditions, a gradual replacement of the necrotic tissue by the living surrounding tissues may occur and result in ideal healing. The author observed this in the case of an II year old boy with disease of the first metatarsal which was treated by the application of supporting bandages and was regular ly controlled by a ray examinations. In this case resection of the head of the bone was not done, but a small section 5 mm thick was trimmed off parallel with the axis of the metatarsal The author at tributes to this method the ideal regeneration of the severely diseased metatarsal head and believes that the necrotic tissue and segment of the head which is contiguous to the normal portion of the epiphysis and the femoral neck should be removed also in Perthes' disease

Konjetzny was able to study the outcome of severe Perthes disease in the case of a patient who was under observation for eight years and ultimately died of tuberculosis This case demonstrated the gradual healing of the disease under conservative management but shows also that even after eight years complete healing had not occurred, since sur rounded by exuberant masses of cartilage, necrotic hone fragments were found in the form of sequestra although the major portion of the extensive epiphys eal bone necrosis which was visible in the first I ray plates had become absorbed and replaced Such residual necroses, which are observed frequent ly also in old cases of Koehler's disease, may be a source of continuous irritation leading ultimately to a typical secondary arthritis deformans. The beginning of the latter condition was noted in some of the author's specimens

In conclusion the author discusses the question as to whether the operative treatment mentioned may not hinder the formation of such inclusions of dead bone in the exuberant cartilage so that truly complete healing may occur under otherwise conservative treatment

Settentree (Z)

Juenging O The Results of the Roentgen Treat ment of Bone and Joint Tuberculosis in the Region of the Foot (Lzgebnisse der Roentgen behandlung der Knochen und Gelenktuberkulose im Bereich des Fusses) Acta radiol 1926 vin 14

In the surgical clime at Tuebingen, sixty four cases of tuberculosis of the foot were treated with the \args during the period from 1917 to 19.4 In thirty six the condition involved the tarsal joint, in twenty one the midtarsal bones, and in seven the toe joints. Twenty four cases were of the spongy type and in forty there were sinuses. Thirty five of the sixty four patients were children.

According to the dosage used, the cases may be divided into two groups. One group was treated before the autumn of 1919 with strong doses, and the other group was treated since then with weak doses The first group included thirteen cases, seven of which were children and the second group included fifty one cases twenty eight of which were children. The results are shown in the table. The numbers in parenthe es indicate the cases in children.

Cases Treated Before 1919 with Strong Doses

	h a-ecti	e Ben fited	21.1	vated.	Tot 1
Midtarsals	4 (3)				4 (3
Tarsal joint	3 (2)		3 (1)		9(4
	Treated	Since 1919	with H	eak Do	
Toe joints	6 (3)	I (1)			7 (4
Midtarsals	14 (8)	2 (2)	t (a)		17 (10
Tarsal ment	er (a)	20(-)	2 (0)		22 624

The prognosis of tuberculosis of the toe joints and the midtarsals treated with the \(\frac{1}{2}\) rays may be considered favorable and as good in adults as in

children and in closed conditions

More than half (55 5 per cent) of the cross of tuberculoses of the tarsal joint could be transferred to the non active group. The fistulous cases that went on to the non active stage were much more numerous among the young subjects than among the adults whereas the cases of the spong type which showed similar improvement were equal in number among the adults and young subjects

The results obtained from treatment with weaker doese wer, lar better than those obtained by the strong doese In nine cases treated with strong doese there were there recurrences and four amputations. In the group of twenty seven cases treated with weak doese there was practically no instance of lighting up of the infection and amputation was necessary in only two

Abscesses should be opened. The injection of iodoform does not seem to have any bearing on the prognosis. Attention to the general health fresh air sunshine and nourishing lood is of importance.

The \tag treatment of tuberculosis of the joints of the foot should never be undertaken without simultaneous orthopente treatment \textit{As ambulatory} treatment the author recommends the application of plaster of laris bandages or the use of some apparatus that will take the weight from the affected joint. The apparatus must be used even after the condition has reak hed the latent stage.

It is advisable to try radiation in every ca e of tuberculosis of the foot joints. In senious fistulous cases in laborers however care must be taken not to delay operative interference too long when two treatments by irradiation are not followed by definite improvement

SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Layr Plastic Operations on the large Ball and Socket Joints (Plastik an den gro en Lugelgelen ken) 50 Tog d deutsch Ges f Chir Berlin 19 6

Payr di cusses plastic operations on ball and sock et joints the myodynamic demands of which are much more difficult to meet than those of the more fixed joints as they require an interplay of muscles in three axes

In the case of the shoulder it is usually necessary because of the unsatisfactory results of plastic operations to be satisfied with movement of the entire shoulder gridle but in the position of adduction this is not sufficient Accordingly, a successful plastic operation is desirable especially for laborers and young persons. When the loss of substance and musch, defects are extensive the difficulties are in surmountable. Resoction of the head of the humer us leaves a shoulder joint without sufficient accuracy of motion or direction.

The insertions of the scapular muscles endowed with little power of rotation are crowded together in one small area. Therefore in ank) loss a dibesons are formed with them marked induration occurs at certain points the bursts become obliterated and the subscapulars becomes contracted.

A good exposure without permanent injury of the muscles is difficult. In mild cases the half Langen beck with chiscling off of the major tuberosity is sufficient and permits bloodless stretching of the subscapularis When the anky losis is broken up from above the osteoplastic liberation of the deltoid origins from the claysele and scapula makes it pos sible to preserve all of the muscles attached to the tuberosity These as well as the newly formed head must be covered by the fascin. Early passive mo tion in all three ares is necessary for a successful result When a plastic operation is contra indicated in rigidity of the arm in adduction arthrolysis or a wedge osteotomy at the surgical neck followed by support of the arm should be done. The author reports a case in which a very excellent result was ob trined in a plastic operation

In the hip the outlook as regards both movement in general and movement in the joint is more favor The removal of the greater trochanter is better than the liberation of the muscle insertions and opens up the joint like a key. The points at which the vessels enter the trochanteric fossa must be preserved for the sake of the blood supply of the neck and head of the femur. A plastic operation on the total and a oscudarthrosis in the neck of the femur near the joint are antagonistic. In osteo, plastic hypertrophic conditions in which the femoral neck is club shaped it is best to perform a saddle osteotomy at the neck of the femur and cover it with fascra whereas when there is a slender fixed head the plastic operation is best. With proper instruments a very good head and acetybulum may be refashioned

In cases of marked strophy of the lone p cudar throas is more up to be successful even though only flevion and extension are regulated. The physics oper thion on a bill and socket joint demnids in addition to brindinging of the limb in abdiction for from four to six usels serily movement in three axes and meriouses to prevent adduction and flavion contracture. I she positions are difficult to correct later Some joints subjected to a plastic operation are transformed by absorption of the head into saddle joints, whereas others retain a good form. Well functioning pseudarthroses with free flevon and extension are often without a Trendelenburg sign, but the limping is not always due to insufficiency of the small gluteal muscles, being caused also by flexion and adduction contractures. In bilateral ankylosis the right side should be operated upon first.

Of thrty five an yloses of the hip nine of which were fib ous, a very good or good result was obtained in 66 per cent. There were two deaths (one due to fat embolism and the other to coronary sclerosis), in twenty plastics, and thriteen saddle pseudarthroses.

In the discussion of this report SCHANZ (Dresden) stated that he has mobilized a large number of ankyloses in a similar manner (interposition of a fat padt, but the heads of the bones were off an her regards it as doubtful whether the modeling of a new head is worth while As the results of subtro-chanteric osteotomy in hip joint ankylosis are good, he performs this operation in a large number of cases

WULLSTEIN (Essen) reported that he has often exposed the shoulder joint hy Payrs method and finds that the procedure gives good exposure. In the hip he has effected a saddle pseudarthrosis which has heen done frequently also by Payr. In Wullstein's opinion, the cause of resorption of the head is generally to he sought in injury to the blood vessels.

STETTIMER (Z)

Whitman A Remarks Prefatory to a Cinemato graphic Presentation of Late Results of the Reconstruction Operation J Bone & Joint Surg 1926 vin 803

The reconstruction operation on the hip is an operation of necessity rather than of election as it is usually done as a last resort. The two chief indications for which it is performed are ununited fracture of the neck of the femur and arthritis deformans of the hip. The results to be achieved are relief of pain, stability of the joint, and mobility of the joint.

The reconstruction operation is a more certain procedure than bone grafting or pegging hecause in patients of the class subjected to it the power of bone regeneration which is so essential to bone

grafts is usually very low

In arthritis deformans the aim is to relieve the pain by shaving off the cartilage and margin of the femoral head thus reducing the size of the head so that friction with the acetabulum is diminished Transplanting the trochanter downward in such cases tends to prevent the troublesome flection ad duction deformity

An incision in the shape of a half U is begun an inch below and behind the anterior superior spine and continued across the femur at a potot about 3 in below the apect of the trochanter. The hase of the trochanter is then separated from the shaft with a wide chisel and turned upward with its muscle at tachments. The capsule is opened and the greater

part of the head is removed with a curved chisel in order to excise all of the diseased bone it may be necessary to remove all of the head. The remaining stump is smoothed off carefully with a file hut not covered with membrane. A thin section of bone is shaved off the shaft just below the site of the tro-chanter and the trochanter pulled down and fastened to this freshened shaft with deep sutures or a bone screw. A space is then applied with the thigh extended and abducted. This is left on for several weeks.

Of greatest importance in the after treatment is the maintenance of the limb in abduction and hyperextension in order to overcome the tendency toward

the flexion adduction deformity

From 1916 to date about eighty reconstruction operations have been done at the Hospital for Ruptured and Crippled, New York. Of the first forty patients subjected to it, twelve reported hack for follow up study. Four who were operated upon for ununited fracture showed an average flevion of 4 degrees, adduction of 10 degrees, and it in of shortening. Five who were treated for arthritis deformans had an average flexion of 46 degrees adduction of it degrees and ½ in of shortening. Both groups were free from pain and all hut one had returned to their normal activities.

Most of the surgeons discussing this report stated that they preferred the reconstruction operation to

bone grafting or arthrodesis

The article contains twenty five cuts showing the results of the procedure William A Clark M D

Abbott, L C The Correction of Deformity in Quiescent Disease of the Hip J Am M Ass, 19 6 1277011 1095

Abbott describes the methods used for the correction of deformity in quiescent disease of the hip at the Shinners Hospital for Crippled Children, St Louis The cases are divided into two groups, those in which the deformity was corrected without ankylosis of the hip and those in which it was corrected with ankylosis. Three cases of each type are reported.

In the first group the deformity was corrected and the shortening reduced by division of the contracted soft parts followed by skeletal traction for several weeks until the maximum correction was obtained Arthrodesse of the hip was then done by cutting a notch hetween the upper surface of the remaining portion of the neck and the inner surface of the great trochanter, accurately fitting this deauded area against the upper part of the acetabulum and the adjacent wing of the illum and reinforcing the area of contact with bone chins

In the group of cases in which the deformity was corrected with bony ankylosis the joint was ankylosed in flevion abduction and external rotation. To avoid the complications of the usual suhtrochanteric osteotomy of the femur in such cases, a new method was employed which combined a transverse subtrochanteric osteotomy with gradual

correction of the deformity to allow the fragments to become imbedded in soft callus. When this was done the gradual bending at the site of deformity could be done without the risk of displacing the fragments. I VLC COLONA MD

FRACTURES AND DISLOCATIONS

Henderson M S The Cause and Treatment of Ununited Fractures South M J 1926 vix 746

It is difficult to assign a definite cause for delayed monor or non minor in any system case, of ununted fracture. One or more factors may be such as devializing trauma the interprotation of muscle or fascia with extensive overriding in adequate reduction improper apposition of fragments interference with the blood supply and too early weight bearing or resumption of function.

The work of Robison and his coworkers appears to have sufficient basis on which to build a reason able hypothesis to explain the apparent interference with the normal processes of exsification. This theory is bised on the presence, in the osteoblasts and hypertrophic cartilage cells of an enzyme (pho phone exterase) which acts on the phosphone exterase which acts on the phosphone exters of the blood. It has been shown that amno acids such as would be formed by the autolysis of dead tissue or hematomita dicalcify the bone appreciably and thus tend to reduce the amount of the enzyme present. The enzyme is inhibited in its action by an acid medium. The fact that this unfavorable influence on ossification does not occur in all cases of fracture is not proof that it cannot happen in some

If this careful experimental work can be accepted fractures produced by severe injuries with consequent serious trauma to the soft parts should be regarded with suspicion. It is reasonable to argue that such fracture should be opened and cleaned of the damaged tissue and harmatomata accurate reduction should be obtained and a fix field

secured

The massive bone graft is the method of choice in cases of non union and leads to a higher percentage of cures than any other method. In delayed union good results are obtained in a large percentage of cases by any method which exposes the fragments realigns them and munitains good apposition.

Edwards H C The Mechanism and Treatment of Backfire Fracture J Bon & Joint Surg 1926 viii 701

This report is based on forty two cases of backfire fracture which have been treated at the kings College Hospital London since its institution in 1020

Backfire fractures may be divided into two groups the direct which result when the starting handle of the automobile files out of the hand and strikes the forearm, and the indirect which occur when the handle does not leave the hand. The fractures are of the following types r I racture through the base of the styloid process of the radius with or without involvement of the styloid of the ulna This may be either an abduction or an adduction fracture

2 Colles fracture due usually to indirect violence but occasionally caused by direct force

3 Ifigh Colles fracture due probably to direct violence and occurring from 1/2 to 23/4 in above the

lower end of the radius

4 High fracture through the radial shaft at the

Justine and the middle and lower thirds due almost certainly in all cases to indirect violence

S. Fracture of the styloid process of the radius

and the inner and posterior margin of the radial

6 Separation of the radial epiphysis

7 Mixed fracture involving the carpal and meta

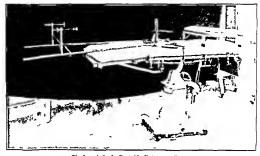
carpal bones In the treatment of a Colles fracture at the Kings College Hospital reduction is often effected by manipulation under anæsthesia by the method of Sir Robert Jones care being taken to increase the deformity before attempting to restore the frag ments to the correct alignment | I articular attention is paid to the correction of the backward tilt of the lower fragment. After the reduction, a Carr splint is applied Ldwards considers the Carr splint most satisfactory as it is cheap easily made does not hamper the movement of the fingers and being wooden permits \ ray examination The palmar flexion is adjusted according to the requirements of the particular case. Massage and active and passive movements are begun after the callus uniting the fragments has become sufficiently firm. In the average case this usually requires at least fourteen

Open operation is indicated in these cases when several attempts to reduce the fracture by manipulation have failed and when in old fractures the wrist is weakned by an uncorrected backward tilt. If the callus between the fragments is soft it is cut through Any irregularities likely to prevent reduction are then removed and the fragments are brought to

gether in good position

If the fracture is old and firm bony union has taken place an osteotomy through the malunited fracture is necessary In the procedure which has been found most satisfactory the bone at the site of the frac ture is cut through with a curved gouge and the surfaces of the fragments are so fashioned that the upper surface is convex and the lower surface con cave the one fitting accurately with the other In this way a false ball and socket joint is made. The distril fragment is then rotated forward so that the backward displacement is eliminated and the radial articular surface faces forward at right angles to the long axis of the radius No plate is necessar) The periosteum is stitched over the fracture and the skin incision closed. The forearm is then put up in the corrected position on a Carr splint

In fracture high up on the radial shaft the lower fragment is carried backward with the carpus and



Clark - 1 Light Portable Extension Frame

the extreme upper lip of the lower fragment may be displaced in front of the proximal fragment. On account of the size of the fragment, the correction of the backward displacement is readily effected under anæsthesia. A Carr splint or a posterior angular and a short anterior splint are then applied. Open oper stion is necessary when there is a marked and irreducible overlap and in old cases in which the backward tilt is uncorrected and will not yield to manipulative methods. In such cases the use of a Lane plate may be necessary. After the operation a Carr splint or a posterior angular and a short anterior splint extending from the wrist to the bend of the elbow are applied.

In fractures through the lower epiphysis reduction is attempted as for a Colles fracture—Because of the danger of displacing the lower fragment early massage and movement are contra indicated until satisfactory immon has taken place—As soon as the swelling attendant upon the fracture has subsided a plaster spint is used. In the cases of young adults the plaster is removed and massage and movement are begun after three weeks—In the case of a child the arm is allowed to go free after immobilization for a month—If reduction cannot be effected by manpulation, operation is performed. The use of a plate is to be avoided in these cases. A Carr splint is applied and replaced by plaster of Paris when the sutures are out.

RUDOLPH S. REICH M. D.

Clark W A A Light Portable Extension Frame J Bone & Joint Surg 1926 viii 750 Clark describes a frame for obtaining extension of

the leg in the reduction of fractures or the applica tion of a cast for any hip or leg trouble. This frame was designed for use in the patient's home or in hospitals where a Hawley or Albee table is not available It weighs only 20 lbs and can easily be carried in one hand It consists of a central piece which is clamped on the operating table and two steel pipes extending out to hold the foot pieces The foot piece is similar to that of the Hawley table, but much lighter The central piece is made mostly of gas pipe and is shaped approximately like a half circle which hes across the table and is held by two adjustable clamps reaching down under the edge of the table top There are two upright non detachable perineal bars set I in apart Clamps on the perimeter of the central piece hold the extension rods in abduction The foot piece is held on the extension rod by a friction clutch, and extension is increased by a thumb screw

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Fry H J B and Shattock C E Sarcomatous Permeation of the Inferior Vena Cava and the Right Side of the Heart Brit J Surg 1926 xiv 337

The authors report in detail a ease of intravascular sarcomatous growth of extraordinary formation

The patient was a primipara aged 10 years who had been recently delivered normally of a full term child. Ten days after labor she complained of patiens of numbriess. There was numbriess in the right leg from the hip to the knee but none at all on the left side. Later severe pains developed in the back, and the temperature becume irregular. Four months after the delivery of the child pelvie examination revealed a large hard mass projecting forward in the complex of the child pelvie examination revealed a large hard that you would be a large irregular shadow of the density of bone which was my revealed a large hard time growing from the sacrum. Settion of a piece showed it to be an ossify inge chardrons without malierant changes.

Alter the operation the patient's general condition gradually became less lavorable and an enormous cedema of both lower limbs and valva developed Death with uramic symptoms resulted twelve

months after the birth of the child

Autopsy revealed arising from the sacrum a smooth firm growth with a slightly nodular surface the limits of which could not be defined. The interior vena eava was greatly distended being a rounded emisolid pillar extending from the juncture of the common that years to the lower surface of the dia phragm It appeared to be completely thromhosed The common that veins on both sides were involved and compressed by the growth The lumen of the inferior vena eava was occupied by a firm whitish gristly mass which extended through the right auricle into the right ventricle and passed out as a solid cord through the pulmonary valve into the pulmon iry artery Death was due apparently more to uramia than to the growth or its immediate effects

Microscopic section of the growth in the inferior vena cava showed a layer of well formed cartilage cells with minute traces of calcareous deposit at certain points and small isolated nests of sarcom

atous cells

The growth present in the vascular system as a solid mass was not less than 53 cm long and its

average diameter was 5 5 cm

The enlargement of the veins of the anterior ab dominal wall which Weber noted in thrombosis of the inferior vena caya was not a feature in this case Jacob S Grove M D

BLOOD, TRANSFUSION

o W J Dyscrasias of the Blood New Orleans
W & S J 1026 levit 299

The author discusses briefly certain fundamental changes in the blood plasma due to the excessive accumulation of catabolic substances the result of normal as well as abnormal metabolism which must be eliminated from the body. These distributions as associated with alteration of the normal degree of alkalinity of the fluids of the body. The necessity for sodium chloride and a trace of jodine in the body has been handed down from our mattice anaectors.

The normal balance of the constituents of the blood is in part maintained by exerctions among which are the urnary, intestinal and bilary excretions. Interference with any of these excretions upsets the alkali acid balance and produces the condition of alkaloss or acidoss associated with the retention of urea and creatinin and a disturbance of the concentration of chloride in the blood.

The function of the kidney is briefly described and reference made to Cushny's hypothesis. All forms of chronic nephritis and nephrosis are not necessarily dependent on injection. If unnary dramage is interlered with as by pressure or ob struction the stage is set for more serious disturb ances in the constitution of the blood which will quickly result in death if the condition is not re lieved The blood urea and creatinin increase and the heart becomes weak. Il large quantities of a normal solution of sodium chloride and an easily digestible carbohydrate diet are given and if in addition a 10 per cent glucose solution is injected intravenously as suggested by Matas the patient will be so far restored to health that operation for correction of the obstruction may be undertaken By these methods the mortality following operations for enlargement of the prostate has been remarkably reduced

In the condition known as high intestinal obstruction whatever its cause there is also a disturbance of the normal alkalinity of the blood and the production of alkalosis. Urea is retained and its concentration in the blood rises as does that of reatinm Marked dehydration is due largely to the vomiting. The blood chlorides decrease as much as 50 per cent. When the alkalosis is marked tetany may result.

Jejunostomy is a fairly reliable remedy but the chemical disturbance can be corrected in a surprisingly short time by the intravenous introduction of solutions of southur chloride and glucose. Reerence is made to the work of Walters in demonstrating that neither chlorides nor water alone will produce this result they must be combined in propor tions approximating the physiological concentration As a result of these methods, operations on the stomach and duodenum have been performed with

a notable decrease in the mortality

When hile circulates in the blood as in jaundice, the hile acids and pigments combine with the plasma In certain patients there may he purpuric manifestations and acidosis With fixing of the cal cium there is interference with the normal coagu lability of the blood This conception has led to the administration of calcium chloride hefore operations in the presence of jaundice. A carbohy drate diet with large quantities of fluid is given sometimes combined with the intravenous administration of glucose In the presence of acidosis sodium bi carbonate rather than calcium chloride should be used In many cases transfusions of blood are necessary

Speese J The Surgical Aspect of Blood Dyscrasias 4nn Surg 1926 ITTEN 477

Specse discusses certain forms of splenomegaly which are accompanied by disease of the blood and in which the attempt is made to cure or arrest the condition by removal of the spleen The various functions of the spleen are cited. While the effect of the removal of the spleen has been studied ex tensively in animals and in cases of splenic rupture, Speese emphasizes that these observations have been made on healthy individuals and that when the spleen is removed for definite pathological processes the findings are very different

With regard to permicious anæmia attention is called to the insidious onset of the condition with pallor acblorhydria, and gradual loss of strength Glossitis is an early symptom Speese is of the opinion that infection is a factor in the etiology. The improvement following splenectomy bas heen far greater than that produced by transfusion or other

palliative methods

Hæmolytic jaundice is characterized by splenic enlargement an icteric tinge of the skin and scleraabsence of bile in the urine and the presence of hile in the stools. One of the most important findings is increased fragility of the red blood cells The results of splenectomy in these cases are most gratifying

Banti s disease is characterized by a chincal course in which there is a progressive increase in the severity of the symptoms. One of the first signs is enlarge ment of the spleen The anamia is of the secondary type It is very important to operate in the early stages of the disease, before dense adhesions are formed hetween the spleen and the surrounding parts particularly the diaphragm, and hefore the development of anæmia, liver fibrosis, and ascites

In Gaucher's disease, splenectomy is the only method that has met with success, but it cannot he

stated positively to produce a cure

Purpura hæmorrhagica is most commonly attrih utcd to infection A careful blood examination is of the utmost importance. In the diagnosis, the bleeding time coagulation time, and capillary re

sistance are of importance. A blood phenomenon in this condition is failure of the clots to retract Mention is made of the acute fulminating type and the type becoming chronic which is seen most frequently in early life, particularly in girls Little can be expected from non operative treatment. The best chance of cure is offered by splenectomy

In the light of our present knowledge, splenectomy is contra indicated in lymphoid leukæmia, polycy thæmia, and the rapidly progressing fulminating forms of hæmolytic jaundice, splenic anæmia, and nernicious anæmia In myelogenous leukæmia. splenectomy offers the best chance of cure if the spicen is previously treated with radium

EMIL C ROBITSHEK M D

Rolleston, Sir H Indications for Blood Trans fusion Brit M J 1926, 11 969 Transfusion of Blood from Animal Cruchet R to Man Brit M J 1926 n 975 Biood Transfusion in Surgery Brit Keynes G if J 1926 11 980

ROLLESTON states that the survival of transfused red blood cells in the circulation varies with the mothid condition Reactions are often dependent upon factors other than the blood grouping are three forms of reactions (1) the acute, due to agglutination and hamolysis, which occurs imme diately (2) the delayed or proteolytic response coming on after from one to twelve hours and (2) the systemic or constitutional reaction

Blood transfusions are of value to make good the deficiency of blood after acute hæmorrhage, to in crease the coagulability of the blood by supplying fibrinogen, to make good a deficiency of red blood cells, to furnish substances in which the blood is deficient such as antihodies in acute infections and functionally active hamoglobin in carbon monoxide poisoning, to act on the bone marrow which is dis ordered as in leukæmia to dilute torins in toxæmia. and to increase the hactericidal power of the blood through the action of leucocytes and the opsonic power of the serum

In reviewing the indications for blood transfusion, Rolleston discusses acute anæmia duc to hæmorrhage. chronic anæmia due to repeated hæmorrhages hæmorrhagic diseases and conditions, purpura hæmorrhagica, postoperative shock bæmorrhagic diseases of the newborn hæmophilia, jaundice pernicious anæmia, anæmias other than Addison s anæmia, leukæmia acute septicæmia, intoxications such as carhon monoxide poisoning, and dehility

CRUCHET presents a review of experiments in the transfusion of blood from animals to man He draws the following conclusions

I It is necessary to transfuse the blood very slowly

The donor animal must be absolutely healthy and must not have performed any muscular work for one or two hours previously

3 The blood must be used immediately after it has passed from the vein of the yielding animal

4 In the transfusion of blood from animal to man the blood of the horse seems to be better toler ated than that of the sheep or the ox

The blood of the horse should be diluted one half to one third with physiological serum 6 It is well to add adrenalin to the mixture to be

transfused up to a strength of r 1 000

7 The transfusion of the blood of the horse to man might be done in the same way as the intrave

nous injection of physiological series KEYNES summarizes the reports received by the London Blood Transfusion Service Two hundred and six of the cases in which transfusion was done were medical and 411 were surgical

Gastric and duodenal conditions 121 cases no benefit in eighteen temporary benefit but subse quent death in thirteen a good or very good result

in ninety

General surgical cases including amoutations splenectomy etc 100 cases no benefit in four temporary improvement in six a good or very good result in ninety

Hamophilia four cases no benefit in one a good

result in three

Septicemia and pyemia twenty five cases no benefit in twenty two a good result in three

Gynecological conditions sixty nine cases no benefit in seven temporary improvement in four a good or very good result in fifty eight

I FRANK DOLCHTY M D

Crulce C C Intraperitoneal Transfusion in von Jaksch s Antemia A Fork State J 31 1926 XX11 921

Von Jaksch's anæmia or anæmia pseudo leu kæmin infantum is a severe anæmia accompanied by splenie enlargement an increase in the white blood cells chiefly the mononucleurs enlargement of the liver and nucleated red cells

The author reports upon a eries of twelve cases in infants from 9 months to 3 years of age which were treated by intraperitoneal transfusion Both the direct and the indirect method were used

In the direct method the blood was drawn from the donor into a 100-c cm glass syringe and injected into the peritoneal cavity immediately. When more than 100 c cm was given, two syringes were empfos ed

In the indirect method the blood was drawn from the donor into a bleeding bottle and mixed with to c cm of a 21/2 per cent solution of sodium citrate for each 100 c cm of blood

The immediate results were good in almost all of the cases amprovement being noted in both the blood picture and the general condition. The ultimate results were not as definite. The younger the child the better the result

Intraperatoneal transfusion permits the intro duction of large quantities of blood at short inter vals without much difficulty

RAVMOND CREEN M D

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Rehn, E Surgery and Organ Function (Chirurgie und Organfunktion) 50 Ta, d deutsch Ges f Chir Berlin 1026

Organ function is life Life depends not only on the function of the organs, but also on their har momous function Disease represents the sum of functional disturbances becoming progressively more extensive. The surgeon must attempt to give his treatment before the development of secondary organic disturbances. Therefore an early diagnosis is of great importance. In the myjority of cases only an early operation will effect a cure

The surgeon must bear in mind that an operation is of more importance to the patient than the results of the mechanical injury. The receperation following an operation is not limited to the site of the operation but occurs in all of the organs. Every physical change is eccompanied by a paychic change The surgeon must not be a mere technician, he must always take into consideration the effect of the operation on the organism as a whole Different persons react differently to operation. The surgeon must know the various types of reaction and attempt to

prevent their harmful effects
The importance of the constitution in the effect
of an operation was especially emphasized by Pavr
In the cases of hypoplastic and lymphatic persons
the reaction is such that every operation is danger
ous. Asthemic and hyposthemic persons are less
endangered. Another type endangered by operative
interference is the embolic type. The embolic type
of person his a pile skin and adiposity and is not
well adapted to withstand mental and physical
strain. By means of comparative graphs, Rehn
demonstrates the increased coagulability of the
blood of such persons. This type of patient should
maintain physical activity as much as possible up to
the time of operation.

Endocrine disturbances constitutional anomalies of the sympathetic nervous system with their effect on the respiration heart blood pressure and metabolism are of influence on the operative course. The sympathetic as well as the parasympathetic nervous system everts an influence. Weakening of one of these systems is associated with danger.

Complete confidence of the patient in the physician aids convalescence. The vagotomic person is a poor operative risk. Such a person bas an in creased susceptibility to shock due to lability of the vasomotor system. Under such circumstances a fall in the blood pressure occurs easily and even local anasthesia is to be avoided. The vagotomic type has slight resistance to the injurious effects of narcosis.

there occurs a disturbance in the relations between the potassium and the calcium salts to the detriment of the latter. The unfavorable effects of this disturbance of balance may be kept within certain bounds by means of denil

Susceptibility to shock is increased also in the young child Shock may be caused by any disturb ance of the mineral metabolism. It so occurrence is favored also by all substances of a toxic or infectious nature. The danger of narcosis is not to be under estimated. Narcosis may be the cause of a vaso motor collapse which has a very unfavorable effect on the heart and the circulation. It leads also to severe disturbances of metabolism which are main fested chiefly in the liver and bilary passages. There fore chrome disease of the liver is especially aggravated by narcosis.

Investigations have shown that the danger of narcosis is caused chiefly by a disturbance of the alkali reserve. Experiments on animals show that in narcosis induced with chloroform or ether there is a decrease in the alkali reserve. Most favorable in this respect is narcylen. Attempts should be made to render this substance less explosive.

In the treatment of shock and the other complications of narcosis it is wrong to use saline or glucose infusions indiscriminately. In many cases a trans

fusion of blood is preferable

Before every operation a functional test of the beart lungs judineys and liver should be made when possible. The author has made graphic studies by means of the electrocardiogram before during, and after operation. Disturbances of cardiac conduction extrasystoles and auricular fibrillation may develop. The effect depends upon the condition of the heart, especially the functional capacity of the heart muscle. Therefore a functional study of the heart is of importunce. A good test is that recommended by kaufmann at the Surgical Congress in Germany last year combined with the blowing up of a tube with air ten times. To stimulate the function of the heart, digitalis is recommended but should not be given indiscriminately in every case.

The chief danger in the lungs is the development of capillar, bronchitis in the origin of which the irritation of the sympathetic nervous system plays an important part. As prophylactic treatment, the administration of afenil is recommended. Although this does not always prevent pulmonary compli-

cations it renders them less severe

The kidneys always show an acctonuria and at times a transitory albuminuria after narcosis. For the testing of kidney function the author recommends his alkali acid test

The results of the author's tests of liver function show how serious the disturbances following par

costs may be especially in cases of chronic liver disease. In the latter great care is necessary

All of the facts cited demonstrate that the sur gon must have an accurate knowledge of physiol ogy. Each organ is a part of the whole. In the detelopment of the surgery of the individual organs the hody as a whole must not be forgotten. The more important the diseased organ is to the body, the more conservative must be the surgical treat ment.

In the healing wounds the total metabolism and the distribution of electrolytes play an important role. Cell life and cell function lead to healing but are themselves dependent upon higher factors. In the treatment of wounds local apphrations are often of less importance than regulation of the general habits of life. The author cutes the research of the Munch school with regard to the effect of foods In these investigations it was found that woundheal better when and foods are given than when alkaline foods are given. In cachetia the conditions are different the patient suffering from a depletion of the alkali reserve. In colon bacilius pyelitis and many conditions associated with the formation of urnary sand an intake of alkali must be provided. In the case of a poorly healing wound in a diabetic local treatment will not help if the sugar metaholsms in oir regulated by the administration of insulin. The newborn infant has a tendency toward acidosis. This must be combated

In conclusion Rehn states that surgery will progress only on the hasis of a physiological study of the interrelations of the parts of the hody

STETTINER (Z)

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Putnam T J Some Brominized Oils for Radio graphic Use Preliminary Report J Am M Ass, 19 6 lyxyn 1102

The various radio opaque oils (liptodol, lodipan etc.) which have recently been introduced find a growing use in the reentigengriphy of the spinal canal the ventracles, the lungs the piransasi sinuses the joints, the uterus and the tubes. But though various accidents have been reported from their use no detriled study of their composition and action has heen made. Both of the original oils are iodized salid (vegetable) oils introduced as palatable iodides many years ago and their introduction into roent genography has heen largely empirical

Several different types of bromine and iodine compounds were made from eleven kinds of oil selected for their variety of physical and chemical properties

The irritating qualities of the more promising compounds were tested by injecting 0 o5 ccm of each into the anterior chamber of a cat's eye. After twenty four hours the aqueous humor was with drawn under standard conditions and the cells in it were counted. It was found that the commercial sodized wegetable oils gave counts of 2,000 to 5,000. The opaque oil which appeared the least irritating was brommized lard oil which produced counts of 130 to 500 cells under similar circumstances. Small hubbles of air under the same condition gave counts of 2,000 to 8 000.

In regard to absorbability, the brominized lard oil also appeared preferable to the vegetable oils. When injected into the eye of a rat, a drop of brominized lard oil was absorbed in about four weeks while similar drops of the vegetable oils appeared intact three months later. Gases have the advantage of being more rapidly absorbed than oil.

The brommized lard oil is therefore being subjected to clinical tests. It is slightly less opaque than the oils now on the market, but is more fluid and more easily emulsified. Brommized sperm oil is very opaque and has a low viscosity, but is more irritating than lard oil.

Desjardins A U Stimulation and Immunity in Radiotherapy J Am M Ass 1926 lxxxvii 1537

The idea has become widespread among physicians that radium and roentgen rays possess the power of stimulating living cells, meaning thereby the growth of cells or collections of cells such as tumors. From a survey of the literature and the amount of evidence indicating that continued acceleration of cellular metabolism does not follow irradiation, the author draws these conclusions.

1 Cells and collections of cells, such as organs or tumors, in plants and animals, cannot be stimulated in the sense that they acquire greater ability to function in a normal manner

2 Any such apparent stimulation is only a tran sient phase which is invariably followed by more or less pronounced functional or organic deterioration

3 The assertions of a few authors that such stimulation takes place must be based on the in sufficient duration of their experiments, the mis interpretation of the results of their studies, complicating circumstances the nature of which is not clear, or misuse of the word 'stimulation'

Another misconception which has gained wide acceptance by members of the medical profession concerns the biological effects produced by irradia tion or, more specifically the mechanism by which radium and roentgen rays bring about the partial regression or the complete disappearance of tumors The mass of evidence shows that the major factor in the effect of radium and roentgen rays on cancer cells is a direct one. It consists of at least two over lapping and interrelated factors (1) a direct action on the cells of the tumor and (2) a direct action on the endothelial cells in the blood vessels supplying the tumor Such of these cells as are irreparably injured by the irradiation are replaced by connective tissue In some tumors the action of the rays is greatest on the tumor cells themselves, whereas in others the influence on the vascular endothelium predominates To these major factors there may be added still others, though less important, but in the present state of our knowledge it is impossible to specify what these may be and what limited in fluence they may have in the action of irradiation on living tissues

MISCELLANEOUS

Metz A An Increase of Ferment in the Serum Following Light and Roentgen Ray Irradiation, an Index of the Processes of Cell Destruction (Fermentvernehrung im Serum nach Licht und Roentgenbestrahlungen ein Index fuer Zellzer fallsvorgenege) Stochkenherapie 1926 xxx 30et

Peptidise, a ferment liberated by the breaking down of the dispetid glycyltryptoplan, occurs in the living body cells and after the phy sological breaking down of the cells goes over into the blood serum it can be easily demonstrated in the serum by incu bating the reagent in the incubator at 56 degrees for two and a half hours. The tryptophan thus freed can be distinguished by means of the red color which appears when it is treated with chlorine or bromine Graded dilutions of the serum are made and the solution of the greatest dilution which still shows a

breaking down is recorded. In this way a peptolytic index is obtained which in each individual is strikingly constant.

In the cases of children in which this index was determined before and after irradiation with the Alpine sun rays natural sunlight and rounger rays a distinct increase in the index was noted after the irradiation. The author believes that illness following roentgen ray irradiation may be regarded as a poisoning by protein end products.

VON SCHURFET (C)

Hess A F The Use and Misuse of Ultraviolet
Therapy V Lork State J W 1026 XXX1 316

Ultraviolet irrediation is a specific for the prevention and cure of rickets and tetany. By exposure to ultraviolet irrediation it is possible to convert foods such as vegetable oils carrots spinach and dried mills, into active anti-rachitic substances. Ultraviolet irradiation is of great value also in the treatment of multiple furnaciosis and tuberculosis especially tuberculosis of the pertioneum bones, joints and glands. Brunettes seem to be more benefited by it than blonds. In exema the results of this treatment of on this treatment of this treatment have been unsatisfactory.

LIEBELLYA R I FRIS M D

Paizis D The Treatment of Moist Gangrene in Diabetics by Diathermy (Traitement des gan grènes humides des diabétiques par la diathermie) Presse mêd Par 1016 xxxx 1241

Diathermy is effective in moist gangrene in diabetics because it produces heat in the tissues improves the circulation increases the defensive power of the body against pathogenic agents either by improving the local circulation or acting directly on the cells and may act also directly on the bactern Of mice cases treated by the author with this method a completely successful result was obtained, in eight I rom the very beginning of the treatment. I take noted a decrease in the pain and edema the elimination of sloughs intense granulation of the wounds a decrease in the general signs of toxiindection—and a fall in the temperature. This improvement did not seem to depend on the insulin which some of the nations had been given.

When the gangrene is situated on the foot an electrode of very thin paper such as that used to wrap chocolates is wrapped around the upper part of the leg and the front part of the foot is sheathed to form another electrode Care is taken to apply the paper tightly to the skin for if it is separated at any point a spark will be produced which will cause a troublesome burn. As it is sometimes difficult to apply the electrodes closely Chevalier tried to over come this difficulty by using as an electrode a saturated solution of sodium chloride into which he plunged the patient's foot. The current varies 500 to 1 200 ma depending on the patient's tolerance and is applied at first for twenty minutes twice a The intervals are then increased gradually to possibly two or three days

The strictest asepsis is observed in the dressings Wet dressings are used in the beginning and dry dressings are applied when the inflammation has subsided. Insulin and a diabetic diet should be jiven according to the usual rules.

ALDREY G MORGAN M D

MISCELLANEOUS

GENERAL BACTERIAL, PROTOZOAN, AND PARASITIC INFECTIONS

kaiserling Sepsis from the Pathologico Ana tomical Standpoint (Sepsis vom pathologisch anatomischen Standpunkt) Deutsche med Welnischr 1926 in 1199

By 'sepsis' the author understands the reaction of the body to the continued or repeated introduction into the blood stream of preponderantly pus forming micro organisms. The reaction is dependent upon the virulence and the number of the organisms and the ability of the body to react

Scpsis maligna occurs when virulent organisms enter a body incapable of resistance. As death results after one or two days the changes in the

internal organs are of no significance

Gas forming micro organisms on the other hand, cause very marked changes Worthy of note in such cases is a peculiar warmth of the corpse The growth of the organisms progresses rapidly in the corpse therefore sections yield little worthwhile information when they are made later than one hour after death The spleen is septic. The liver shows the picture of cloudy swelling, and occasionally there is a light icterus. The icterus is not always due to changes in the liver, on the contrary it is often the result of increased hamolysis in the blood spleen and liver The kidneys and heart muscle show cloudy swelling On microscopic examination an increase in the leucocytes in the blood is found. A cure occurs il the body is able to wall off the portal of entry by new connective tissue and to kill the bacteria that have already entered it

Streptococi often cause less cell and ussue dam age than staphylococca and produce a diffuse pbleg mon instead of numerous abscesses. Endocarditis and thrombophlebitus are more common in staphy lococcal infections and are dangerous especially because of the necrosis and extensive breaking down of the tissues they often lead to embolism.

It appears that the chief role in the defense against the micro organisms is taken by the vascular endo thelium in the liver, spleen and bone marrow and the reticulo endothelium and the endothelium of the wessel walls which are morphologically and func

tionally related to it

Of the septic types of endocarditis vertucous endocarditis is the least dangerous. To this belongs the disease of the valves developing especially in the course of rheumatic arthritis. In such cases of chronic sepsis we are dealing with a smaller number of bacteria which because of the good resistance offered by the endothchium and the connective tis sue, produce only limited necrosis and small blood platelet thromboses and by irritation stimulate the

growth of connective tissue Related to endocardi tis are the rare cases of endurteritis ulcerosa

Nickel A C The Localization in Animals of Bactery Isolated from Foci of Infection J Am M 1ss 1926 ixxvvi 1117

The foct of infection studied by the author were the tonsils, teeth, prostate, and cervix. All culture material obtained from these foct was plated aero bically on blood agar plates and inoculated into glacose brain agar and glucose brain broth made according to Rosenow's method. The great majority of the strain sisolated consisted of a partial tension, green producing streptococcus which in primary culture grew poorly or not at all under aerobic conditions. These partial tension cultures, when freshly isolated and injected intravenously into rabbits tended to produce lesions similar to the lesions of the patient from whom the culture was obtained.

The highest incidence of specific localization was shown by cultures from infected teetb. In every instance the percentage of localization in the control animals was only a small fraction of the large per centage of specific localization in the animals with the specific strains. The causal relationship between the organisms and the lesions produced was established by isolation of the former from the lesions when the blood and other tissues proved sterile and by their demonstration in the sections. The diseases thus studied included arthritis impocarditis and endocarditis, myositis, lesions of the eye, lesions of the skin, and ulcer of the stomach and duodenium

This method of estimating the localizing power in animals of organisms isolated from foci of infection is of diagnostic as well as therapeutic value. It often serves to demonstrate which of a series of organisms commonly found in foci bears a causal relationship to the systemic disease and what particular focus harbors such organisms, and at provides the means for active immunization with specific autogenous vaccines.

Jackson R H Surgical Treatment of Certain Massive Blastomycotic Skin Lesions 4m J Surg 1926 n s 1 185

Jackson reports two cases of extensive blasto mycotic skin lesions in which surgical intervention was undertaken after the patients had been under the care of competent dermatologists for cleven and two years respectively and the lesions had become more extensive under non surgical treat ment

Under nitrous oxide and ether anæsthesia large soldering irons heated to a dull red were applied 332

and re applied to the entire area of the lesson until a thorough cooling of the issues to a depth of about 3 or 4 cm was assured. The cooked surface was then removed with sharp spoon curettes. The curetting continued until blood appeared when the iross were again applied. This procedure was repeated until all evidence of the disease had been removed. The final application of the cautery left a light charred seared area.

At the conclusion of the operation a hot wet dressing of r per cent copper sulphate solution was applied to the whole area. This dressing was renewed each day until healthy granulations and epithelization appeared. Potassium sodide r dr and l, or cansules of copper sulphate foreconstated!

nere administered internally

Epithelization was added by the application of adhesive zinc oxide plaster strips. Skin grafting was not necessar. In one ease epithelization was nearly complete at the end of seven weeks. In the other convaissement was shortened by the use of "cootie skin grafts."

With regard to the diagnosis of blastomycosia
Jackson mentions the peculiar foul odor occurring
in advanced cases

FACOR V MORA M D

DUCTLESS GLANDS

Rowntree L G and Snell A M The Diagnosis and Treatment of Certain Glandular Deficiencies Wed Clin A im 1926 x 513

The treatment of endocrine diseases at the present time resolves stied into (i.) substitution therapy that is the replacement of a partially or completely massing hormone by one of the same nature or (a) the surgical removal of gland issue which is exciting an excess of hormone A perfect example of substitution therapy is the management of a case of myxocidem. In this conduction sufficient thyroid extract is given to bring the depressed metabolic rate to normal and a suitable maintenance dose of thyroid extract is given dady in order to keep if at a normal level.

Parathyroid deficiencies either acute or chronic are frequently due to the accidental surgical removal or injury of the parathyroid bodies. The patient responds favorably to substitution therapy in which the parathyroid extract of Colip is used. The cases are presented one of acute tetanis parathyreopriva and the other of ebronic tetany. In both the symptoms were relieved by the use of paraborimone together with large doses of calcium licitate a normal calcium equilibrium was established after a considerable period and it was possible to discontinue the treatment. In experimental animals a similar phenomenon is observed.

Duabetes asspidus may be either adopastha or secondary to ererbral lessons of varous sorts. In the latter group metabolic rates are as a rule lowered while an adopastuc cases the rates are usual ly within normal limits. This point is frequently of diagnostic value Secondary diabetes inspidus due to syphilis of the central nervous system is rarely relaced by vigorous analysphilis treatment. The use of pituitary extract is effective in both types of the disease and controls the thirst and types of the disease and controls the thirst and types of the disease and controls the thirst and types at the sum of the disease and controls the thirst and types at the sum of the disease and controls the sum of the disease and controls are sufficiently and attain and the sum of pituistin both hypodermically and intra-nashly since there is a marked individual variation

in the response to various extracts

Addison's disease is probably due to a deficiency of the cortical portion of the suprarenal rather than to a medullary lesion. Preparations of the cortex in use at the present time do not seem to be active or at least do not appreciably prolong the life of animals from which the suprarenals have been re moved Substitution therapy in Addison's disease is therefore confined to the administration of epi nephrin by hypodermic injection and by rectum to the point of tolerance The administration of suprarenal cortex by mouth should be tried even though there is some uncertainty as to its effect. The treatment of collapse so frequently a terminal event in this disease is rarely successful Protection of the pa tient against exposure infection and emotional dis turbances which may precipitate such incidents is of great importance. It is difficult to evaluate the effect of organotherapy in Addison's disease Such treatment appears to do much good in certain cases but in others has little effect. Of a group of sixty eight patients three lived nearly four years and in a number of those more recently treated the results of such treatment are apparently stationary

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Supplementary to

Surgery, Gynecology and Obstetrics

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EDITOR'S COMMENT

HE chinical and experimental studies of Blair.
Bell and his associates at the University of
Liverpool of the effect of various lead compounds upon malignant growths have been followed with widespread interest by surgeons in
every part of the world. The comprehensive report of this group of workers presented at the
meeting of the British Medical Association in
Bath is abstracted on page 433. The reader
cannot help but be impressed by the carefully
planned organization of this group of workers
facing so important a task by their obvious
determination to attack he problem from every
possible angle and by their judical attitude
toward the results so far attained

With reference to the action of lead upon malignant tissue Wood states that sublethal in jections of lead into white rats with carcinoma cause congestion cedema and necrosis of the tumor cheft) because of thrombosis of the blood vessels and only secondarily because of the toric action of lead on tumor cells. He believes that thrombosis takes place only in the tumor.

In discussing the clinical application of the lead treatment. Cunningham points out the contraindications to its use and the methods that have been found of value in preventing the toruc effects of lead. He emphasizes the need for a less toxic and more therapeutically active preparation than those now available.

Lockhart Nummers s discussion of the prog nosis in rectal cancer (p. 385) and the report judd and Parker on the mortality following r 324 operations on the bihart system and pancreas at the Mayo Chinc in 1935 (p. 385) help to indicate not only the prognosis in two important groups of surgical disease but also the high standards that are being set up for every surgeon against which to measure the results of surgical treat ment. Patients suffering from carcinoma of the

rectum and patients with jaundice admittedh offer a trying test of surgical skill and judgment. That Lockhart Mummer, was able to obtain a five year cure in forty five of ninety five cases of rectal cancer and that Judd and Parker and their associates were able to operate upon 179 patients with stones or other pathological conditions iffecting the bile ducts of whom sixty-eight were jaundiced at the time of operation with a mor tality of approximately 6 per cent should serve as a stimulus to more careful study and more exacting attention to methods that make such results possible

The experimental and clinical studies of Wil liams upon the part played in intestinal obstruc tion and peritonitis by the toxins of anaerobic organisms (p 370) seem to us of great significance to the general surgeon and particularly to the surgeons confronted with the emergency work of a large general hospital That Williams and his associates at St. Thomas Hospital, London were able to reduce the mortality in cases of acute appendicitis from 6 to r 17 per cent and in cases of acute obstruction from 24 8 to 9 3 per cent by the administration of bacillus welchii antitorin to the patients of each group most severely ill (eight een in the first group and nineteen in the second) is a strong argument in support of their theory that an important factor in the morbidity and mortality in these conditions is the specific town liberated by the rapidly multiplying anaerobes

The discussion of Judd Parker and Morse upon the variation of symptoms in a group of cases of tumor of the kidney and ureter and tuberculosis of the kidney (p -02), and the description is Smith and Christensen of a method of preventing skin exconation in patients with intestinal fistule (p 360) are only a few of many other interesting and important abstracts in this month is issue of the IVIER/VITOVIA ABSTRACT OF SURGERY

INTERNATIONAL ABSTRACT OF SURGERY

MAY, 1927

ABSTRACTS OF CURRENT LITERATURE

SURGERY OF THE HEAD AND NECK

HEAD

McFarland J Ninety Tumors of the Parotid Region in All of Which the Postoperative History Was Traced Am J M Sc 1926 clvu,

The theory of accidental sequestration of em bryonal cells during the early and complicated de velopment of the face and neck affords the most satisfactory explanation of the origin of mixed tumors in these parts of the body. By this theory it is easy to account for the number and variety of tissues found in the tumors and for their varying proportions and conditions

Vixed tumors are individual entities baving no relation to the normal structures in which they occur but from which they do not anse They have nothing to do with other tumors and should be called "mixed tumors, regardless of their histology

These tumors are inherently benign, but common ly recur after excision and if frequently disturbed become locally destructive and invasive without forming metastases

The histology of mixed tumors is extremely complex but on that account the microscopic diagnosis is usually very easy. The immaturity, atypical ar rangement and confused intermingling of the vari ous tissue components easily lead to misinterpretations as to their nature

Histological variations among mixed tumors have no bearing upon the prognosis. The rapid enlarge ment of a mixed tumor of long duration and slow growth is not the result of malignant change Mahgnant change in mixed tumors must be rare

The ninety tumors reviewed may be grouped as follows Group 1, primary mixed tumors forty four, Group 2 recurrent mixed tumors nineteen Group 3 mixed tumors, microscopy not verified three Group 4 probably mixed tumors with a histological appearance suggesting sarcoma five, Group 5 probably mixed tumors with a histological appear ance suggesting carcinoma four, Group 6 recur

rent carcinomatous tumors fourteen Group 7. adenomata one

Of the patients with primary mixed tumors therty six were alive and well after from four months to sateen years following the operation Six died from other causes from three to seven years after the operation one died without treatment, and one died immediately after the operation

Of the patients with tumors belonging to Group 2, nine were living and well from two to fifteen years nfter the last removal of recurrences one died shortly after the operation and two died one year and twelve years respectively after operation, hut not from recurrence

The three patients with tumors belonging to Group 3 are living and well from three to sixteen years after the operation

Of the five patients with tumors h longing to Group 4 four were living and well from four to nine vears after the operation and one died two years after the operation but not from recurrence

Of the four patients with tumors belonging to Group 5 two are hving and well from two years and eight months to filteen years after operation and two died from other causes sixteen and nine years re spectively after operation

Of the fourteen patients with tumors belonging to Group 6, nine died from the tumor, three developed recurrences but are free from them after from one to two years and two months after the secondary operation and two now have recurrences

The one patient with an adenoma is living and well three years after operation SAMUEL KARN, M D

EYF.

Derby G S Waite J H and kirk E B Further Studies on the Light Sense in Early Glaucoma Arch Oph h 19 6 lv 575

The authors here record further observations on the light sense in glaucoma. The charts show the results of two tests made a year apart in thirty nine cases and of one test in thirty two other cases Cases of established glaucoma showed retardation of dark adaptation and marked changes in the light

minimum

A series of normal eyes in cases in which there was definite primary glaucoma of the other essential old than normal or both. In the cases in which retsting was done after a vear the light minimum was found higher and in a few glaucoma had dieveloped.

Light fests have been myde in a large number of diseases but the amount of material collected is not yet sufficient to warrant a report. The authors express the hope that some simple metus of determining the light minimum will be developed which can be used in the office and that the light difference may be investigated at a higher feel of illumination than is now possible. Yound Western W.D.

Bagley C. H. Enucleation of the Eyeball with the Implantation of Endogenous Cartilage is J. Ophik. 1920 3 s. iv. S. 3

Since sympathetic ophthalmia has occurred after failure to remove all of the selera in an enucleation all methods of eventeration are confemned A good cosmetic result may be obtained by the implantation of utogenous cartilage in Tenon's capsule

Meer ordinary surjected preparation in vertical mission is made over the surh in by cm to the right of the middine. The insertion of the rectus muscle is split exposing the fused cartilage of the fifth with and seventh in by The sixth and the interior periodordinum are removed, the posterior layer being left to allow future regeneration. The usual cinucle ation is done sutures being attached to the recti muscles during the operation.

After all bleeding has been checked by hot soft unton or adrenalin a graft composed of several lavers of civilique secured by fine catgut and about three tiths as large as the globe is placed in Tenon's capsul. I enon's capsule is closed with a purse string catgut siture and three suttors of the same material are employed to close the subconjunctival tissues. The conjunctiva is carefully apposed to prevent infolding and is closed with a horizontal row of interrupted sill, sutures

No blood matching is necessary the cosmetic result is good and permanent sympathetic ophthal mus is eliminated and there is little postoperative reaction: Sauter 1 Ders 11 D

Lent E J and Lyon M B Hæmangioma of the Chorold J Indiana Stat W 1ss 1930 vsv 443

The authors report what they believe to be the thenty sixth case of hamangtoma of the choroid on record. From this case and the twenty five previously reported in the literature they draw the following conclusions

Harmangioma of the choroid is a rare condition. It occurs most frequently in the second decade of life. 3 It grows slowly and ultimately causes retinal detachment and glaucoma

4 It is non invasive and non metastatic 5 The diagnosis from other intra ocular tumors

is difficult but possible lebrer H Penner MD

Ling C Tuberculous Iridocyclitis as Observed

king C Tuberculous Iridocyclitis as Observed with the Slit Lamp with Remarks on Tuber culin Treatment treh Ophih 1926 is 563

Lung states that for some time there will probably be a discussion as to the use of tuberible as a diagnostic and therapeutic agent. In his opinion, however it is hardly possible that the slit lump will be of much aid in the argument when in the present state of our knowledge the chinical appearance of tuberculosis as revealed by it is identical with that of lues and sumpathetic inflammation. After all we are dependent in the differential diagnosis of thronic indocyclitis upon the history the general and local chinical findings and the findings of well est highly all beginning in the property of the site of the est highly the best of the contraction.

In conclusion, hing says that to those who have seen the general ph seral and laborators examination made by German ophthalmologists in cases of ocular inflammation it is not surprising that they discover inflammation it is not surprising that they discover independent of the continuous ophthalmologists have made good use of tubercular but fake some American ophthalmologists have not sufficiently realized the importance of focal infection or considered infections. August Wiscort VID

Wright R E Blocking of the Main Trunk of the Factal herve in Catamet Operations Based on Experience in Over 150 Cases 1rch Ophil 19 6 is 555

The author suggests a method of blocking the facial nerve in cataract operations in the cases of untils patients. It has been tired in 150 cases with good results. The side of the face becomes mast bke and the pressure on the globe is limited to that caused by the levator muscles of the globe or a bulging re. The only disadvantage actives from the lagophthalmos. In four cases, this persisted so long that a tarsorraph was necessar. The lidmust be carefully approximated while the dressings are applied.

The lobe of the ear is pulled forward and upward and the needle introduced at about the level of the masteid process. I arily six results after from five to fifteen minutes. \(\text{\text{LEGIL}}\) \(\text{\text{LEGIL}}\) \(\text{\text{\text{LEGIL}}}\)

EAR

Shambough G E Fads and Fancies in the Practice of Otology agology I am if is 1926 leven 17 0

Shambugh discusses theories relating to nasal neuroses the indiscriminate removal of the faucal tonsids the misinterpretation of the relation of nasal and nasopharvingeal conditions to certain forms of ear discases the freetiment of the spheno ethnoids for the relief of optic neuritis when there are no definite indications for such treatment, and intranasal surgery for the relief of migrainous beadache W B STARK, M D

Wilson J G The Maintenance of Attitude and Its Relation to the Vestibular Mechanism Laryngoscope 1926 xxxvi 791

In stimulation of the semicircular canals by rotation which results in changes of attitude of the body the mechanical factor is angular acceleration but if we conclude our consideration of this change with the mechanical factor we have a restricted view of the process involved Tait found that a frog rotated tangentially, with a constant acceleration, abruptly assumes certain postures 'in shifts' and concludes that the frog has a certain range of selection in the matter of posture. Contrast this with the following data

Dodge found that if one is seated in a char so that the back, and body are fixed when the chair is slowly rotated with a constant, very slow acceleration starting at zero the following sensations result (i) consciousness of motion with no knowledge of direction, alternating with periods when no motion is felt, (a) consciousness of correct rotation or a reversal effect (3) a fairly accurate knowledge of the direction of rotation which is gained as the speed

of rotation increases

In both experiments the mechanical factor is un altered except in regard to increasing speed. It is difficult to believe that a constantly directed speed per se can give such varying impressions if we regard these impressions solely as the outcome of a mechan ical factor Something occurs when this physical energy is translated into nerve energy. The degrees of contraction of a muscle are not as numerous as the degrees of strength of the exciting stimulus but take place in a series of steps. There is needed an increment in the intensity of stimulation before the effective result comes There is a definite increment of energy before the "abrupt shift" is made just as there is a definite increment of frequency before the difference between pitches or of amplitude between two sensation units. This places the emphasis where it belongs, on the nerve mechanism, and less on the mechanical action of acceleration

There are two thoughts which should ever he present when one desires to apply experimental find

ings from lower mammals to man

That the central nervous system is a unit into which fit several more or less independent units with special functions, of which one equilibrium, has an important part of its mechanism located in the labyrinth.

2 That when the laby mith is considered at different stages of vertebrate development the po i tion of the anatomical mechanism involved is not constant. There is a flexibility in the mechanism with fixation of function.

The central nervous system controls the move ments and the attitudes of the hody To do so adequately, it must have information in regard to the attrudes of the body or movements which are being carned out To assist in supplying such in formation is the chief function of the laby rinth Involved in the complete reactions necessary for equilibrium we have three factors (r) the adequate afferent stimuli, from various sources, which set the mechanism going, (a) the co-ordination of these stimuli, the summing up and adjustment of the stimuli, the avoidance of conflicts, and (3) the efferent pathway through which the adequate muscular reactions are made effective

When one analyzes the first of these one is impressed with the number of responses in which afferent impulses from more than one source can he shown to participate Frequently it is the accessory afferent impulses arising from sensory fields other than the limited one to which a given stimulus is applied, which makes the reflex response adequate for the particular movement required by the animal. In the maintenance of equilibrium a number of afferent impulses are involved. The play and interplay of these afferent forces are bewilder ing in their complexity and will remain so unless we recognize the underlying essentials. One aid to our diagnosis as clinicians is the study of the mod ifications of typical motor responses which occur when any particular afferent channel is blocked, for instance the alteration of the normal reaction to caloric stimulation. There is the possibility that when one of these afferent channels is interfered with hy accident or disease, certain other channels may, by the increase in the quantity of energy which passes over them, compensate, in part at least, for the loss of the impulse which formerly came in over tbe damaged pathway

From the labringth, two muscular reflexes arise (i) movements which are transitory, for instance, in the eyes, produced by angular acceleration or by the caloric reactions, and (.) unconstious compensatory positions persisting after movement and retained so long as the head remains in a particular position in space. These are distinguished also from one another as to the anatomical site of their origin. The site of the positional lies chiefly it is believed in the otolith organs that of the caloric, in the semicricular canals.

Positional refleves arising from the labvinition show a shift in the location of origin of the refleves at different levels of the vertebrate phylum. Magnus has shown that, in rabbits and guines pigs, they originate in the otolith origins but Maxwell clearly demonstrated that in fish the positional reflex could come from the ampulla. Here we note a first shift in anatomical location. The source of the reflex movements in the rabbit, Magnus locates in the saccule, but Parker and Maxwell have shown that in fish the loss of this saccular otolith "does not alter or weaken any of the compensatory movements, it does not disturb equilibrium or the righting reflex nor is the muscle tonus affected in any way." Here there is a second functional change in location

Again tonic labyrinthine reflexes acting on the muscles are modified by the position of the eyes in

the head, lateral or frontal. In the rabbit with laterally placed eyes where the images do not falf on corresponding points of the reting these laby rinthine reactions are marked. In the monkey and man in which the images fall on corresponding points of the retinæ they are small and subsidiary to ocular positional reflexes. Here there is a third functional change during phylogenetic development Related to this, we find in the guinea pig and rabbit the co ordinating mechanism adjusting the tactife the neck and the laby rinthine reflexes for equilibrium located in the medulla pons and mesencephalon. But with the development of the cerebrum in the higher mammals the primitive co-ordinating mechanism has been modified by a shifting forward of co ordinating areas. In the monkey and man the ocular component dependent on the activity of a high cerebral factor becomes a greater controlling factor in positional reflexes. In keeping with this change as a result of the experimental work on dogs and monkeys and from clinical observations with pathological findings in man it was found that the quick component involves a different pathway and higher cerebral association than the red nucleus or nuclei caudal to it as suggested by Magnus and

Labyrinthine righting reflexes by means of which the head always tends to remain in the normal position and does not conform to the different positions of the trunk can be studied in normal guinea pigs and rubbits in all other animals the cerebral hemispheres must first be removed (decerebration) but the mid brain especially the nucleus ruber must be left intact because the centers of these reflexes are situated there Dogs and cats show the influence of the cerebral cortex in the activity of the visual

his co workers

righting teffex In decerebration we cut off the so called inhibitors influence and then consider the effect of its absence on a center which very probably because of this cut off has augmentation of afferent force to it from other sources. But what was this inhibitory influence doing before it was cut off? Inhibition is a positive and not a negative quantity. Suppose an inhibitory center A located according to our hypoth esis above the mesencephalon is controlling the red nucleus To control it adequately Center A must get information from the periphery concerning equilibrium and such peripheral influences must pass up higher than the brain stem and the red nucleus It may well be that the red nucleus and the cells which extend from it to the medulla act in part as Magnus has outlined but it is well to consider the possibility and likelihood that some part of the function of these areas has been transferred in man to other and higher areas or at any rate that profound influences above the mid brain bave to be senously considered One should not forget the modifications in phylogeny which have already occurred, and we should not be too dogmatic in trans ferring experimental data from rabbits to man Rather let us correlate the experimental facts so

clearly stated by Magnus with observed nathological results seen in our clinical cases for along this road lies progress

NOSE AND SINUSES

Cunningham O D Tutocaine A Local Anaes thetic in Rhinolaryngology Laryngoscope 1926 XXXVI 817

The author discusses the ments and defects of tutocame as a local anæsthetic from the laboratory and clinical standpoints

In experiments on animals tutocaine was found to be 4 5 times less toxic than cocaine 2 7 times more toric than novocain, and approximately three fifths more powerful than cocaine for the induction of sur face anasthesia Its toxic symptoms are essentially

those of cocame and novocam In clinical use it was found that for the removal of tonsifs a 5 per cent solution in 1 10 000 adrenalin is a satisfactory substitute for 10 per cent cocaine for surface anasthesia and a 14 per cent solution is a satisfactory substitute for 0 5 per cent novocam for infiltration. For most intranasal operations a s per cent solution in 1 10 000 adrenalin is a satis factors substitute for flake cocaine and adrenalin For submucous resection tutocaine is less satis factors than cocaine flakes and adrenalin

It is somewhat slower than cocume and novocum in producing equivalent anasthesia. It is superior to cocaine in its relative freedom from toxic by effects W B STARL MD

Ifays If The Local Administration of Bacterial

accines in the Treatment of Subacute and Chronic Nasal Sinus Conditions Laryngoscope 1926 XXXVI 812

In the treatment of subscute and chronic para nasal sinus infection the author applies an autog enous vaccine to the misal mucous membrane and injects it into the antra

The patient receives in all, eight office treatments given at intervals of three or four days. In the interim he uses the vaccine at home twice daily in

the form of a nasal spray Of sixty nine patients treated in this manner, twenty three were cured, thirty eight were bene fited and eight were not benefited

W B STARK M D

Turner A L and Reynofds F E Nasal Mucous Polypt Intranasat Operation on the Erhmoldal Air Cells Purulent Leptomeningitis Death Autopsy J Laryngol & Otol 1926 xli 717

In two previous communications published by the authors on their investigations regarding the path ways of infection from the nose and accessory sinuses to the intracranial structures it was proved that the infection may travel along the veins In the two cases reported sentic thrombosis of the caver nous blood sinuses developed as the primary com plication in one from an initial focus in the ala nasi

in the other, from suppuration in the ethmoidal and

sphenoidal air cavities

The case reported in this article was an example of acute purulent pneumococcal leptomemingitis con sequent upon operation on the ethimoidal air cavities Microscopic examination of the tissues demonstrated that the lymph sheaths of the olfactory nerves were the paths along which the infection had spread

The article contains numerous photomicrographs and other illustrations to show this. The possible routes of intracranial infection from a primary fucus

outside the skull are enumerated

The number of fatalities in relation to the total number of intranasal operations performed on the accessory sinuses in the numerous ear and throat clinics is not large even granting that more com plications occur than are reported Fram the microscopic investigation of the authors' case and of the two cases reported hy von Eicken and Miodowski we must conclude that the olfactory permeural lymph sheaths provide one of the path ways along which infection may reach the meninges The authors are at present engaged in investigating microscopically another case of postoperative fatality which may throw further light upon the path of infection in these cases \o postmortem examination should he regarded as complete unless this line of inquiry is undertaken

In intransal operations upon the ethmodal air cells the olfactory area of the nasal cavity is a danger zone because of the perineural is mph sheaths in the microis membrane and the close proximity of the thin criphitorin plate. It is therefore advisable to avoid this area in order to eliminate so far as possible, the risk, of infecting the meninges by way of the lymph sheaths of the olfactory nerves or more direct by through a fracture of the crinfrom pate

ABRAHAM R. HOLLENDER M.D.

Sewall E C External Operation on the Ethmo-Sphenoid Frontal Grup of Sinuses under Local Anaesthesia The Technique for the Removal of Part of the Optic Foramen Wall for the Relief of the Pressure on the Optic Nerve Arch Otolaryngol 1926 1v 377

After discussing the ethology pathology symptoms and diagnosis of sinus disease, the authur describes the indications for operation and his operative technique in the treatment of disease of the ethmosphenoid frontal group of sinuses. He advocates the use of the extransal route and local anaesthesia. He describes also the technique in freeing the optic nerve by removal of the optic canal

A series of thirty operations performed by Sewall are reviewed. There were no liatalities. In all of the cases the scars were almost negligible. Pain during the operation was slight. The time required for the operation was about one and a half hints Practically no bleeding was caused by the wink in the sinuses. The results were on the whole satis factory. In all of the cases the symptoms com

plained of before the operation were relieved, and in some of them the discharge had been entirely stapped at the time of this report

W B STARK, MD

PHARYNX

Crumrine C A An Anatomical Study of the Superficial and Deep Lymphoid Tissues of the Nose and Throat Atlantic M J 1926 xxx 58

The author describes the suboccupital, mastond, parotid, submaxillar, suhmental, and retrophary n geal lymphatics which form the cervical glandular collar the substeroomastoid, internal jugdar, and subclavicularlymphatics which constitute the vertical glandular chains, and the lymphatics of the gums, tongue, palate, pharynx and nasal fossæ

W B STARK M D

Steward F J Surgical Treatment of Malignant Disease of the Upper Air and Food Passages Bitt Jf J 19 6 pt 819 Knur, R Treatment by \Rays of Malignant Dis

Knux, R Treatment by \-Rays of Malignant Dis ease of the Upper Air and Food Passages Brit If I is 6 u 821 Muligan Sir W Treatment by Radium of Malig-

Milligan Sir W Treatment by Radium of Malignant Disease of the Upper Air and Food Pas sages Brit M J 1926 ii 822 Syme W S The Treatment by Diathermy of

Syme W S The Treatment by Diathermy of Malignant Disease of the Upper Air and Food Passages Bril M J 1926 u, 8 5

STEWARD Early operable cases of malignancy of the upper air and food passages (perhaps no per cent of the total number) are those in which the primary growth involves a limited area no enlarged lym phatic glands are palpahle, and the general condition is good

Doubtful cases constitute the majority—about so per cent of the total number. The site of the growth is largely immaterial avenues of approach can always he planned. If the growth can he removed without too great interference with function there is a chance of cure or the probability of alleviation even if it is extensive and the glands on one side of the neck are involved.

In bopeless cases (40 per cent of the total number) a palliative operation such as the removal of a fœtid bleeding ulcer of the tongue is often advisable

The decision as to the Procedure indicated is most difficult in the doubtful, horderline or hopeless cases. In these treatment may fail or there may he a chance for a brilliant success

The chief dangers of operation are infection of the operative wound and sepsis of the lung. The mouth must be freed from infection. Septic teeth should be removed and the others carefully scaled and cleaned.

The anæsthetic of choice is ether given hy intratracheal insuffiation. A complete block dissection of the glands of the corresponding side of the neck is done through wide skin flaps.

If the growth is in the upper part of the pharynx, the mandible is sawed through and the growth excised with a sufficient margin of mucous membrane

If the lower pharynx is involved, the excision is made lower, usually after the removal of the hyord bone and part of the thyroid cartilage Refore the pharyny is opened it is isolated by gauze packs in

order to lessen the risk of infection

The growth may be removed by excision or diathermy. In the use of diathermy the peripheral coagulation seals off the surrounding tissues and prevents spreading wound infection However on account of the prolonged local healing of the cleatrix pulmonary sepsis is liable to result. If the base of the wound is small and can be well closed Steward prefers excision whereas when it is large and irregular he prefers diathermy

The result of the operation is dependent upon successful closure of the opening in the pharynx Leakage infection is always serious Numerous mattress sutures are used to unite first the submucosal surfaces and then the muscles All spaces

are occluded

If the removal of the growth leaves a defect which cannot be completely closed the mucosa is sutured to the skin edges and subsequent plastic closure is done Removal of a hypopharyngeal growth will leave a defect which must be filled by a skin flap (from the original incisions) or by the formation of a cicatricial stricture. A soft rubber catheter for feeding is titted into the wound in the neck

The treatment of malignant disease of upper air and food passages with the \ rays has not been satisfictory chiefly because in such a limited depth of tissue it is not easy to administer a satisfactory dose without causing damage. However recent improvements in the technique have some what overcome this difficulty and hetter results are now being obtained with the use of medium wave lengths An accurate diagnosis is essential

Inberculosis syphilis and actinomy cosis must be ruled out Sometimes a few \ ray treatments may reveal the nature of the discase. Inflammatory and lymphosarcoma masses disappear readily whereas tuberculosis disappears more slowly, and in carcino

ms the response is very slow

Pre operative \ ray treatment is recommended for early operable lesions. This should be applied chiefly to the glandular areas Postoperative raving is also beneficial if it is not carried to the point of depressing the reparative powers. In inoperable cases alleviation is obtained by moderate doses as distinct from lethal doses of the \ rays Greater improvement in the results is to be expected from further refinements of the technique

Five illustrative cases are reported Some of them show the difficulties in the diagnosis. In others the Y ray treatment causes improvement but in none did the improvement last longer than a year

MILLIGAN When the technique of radium ap plication is further improved radium will supplant surgery in the treatment of inoperable malianancy of the upper air and food passages With regard to the dosage there are two schools of opinion some advocating large doses and short exposures and others advocating small closes and long exposures Milligan favors small doses and long exposures The hest method consists in exposing the growth surgical ly and inserting the element under the guidance of the eye Sarcomata disappear rapidly but frequent ly form metastases Epitheliomata require only short exposures

In the nasopharyny and ersophagus considerable technical difficulty is experienced in the introduction of radium In the nasopharynx radium is of value because of its devascularizing effect. Its use is free from the risk attending operation in this region The more fibrous the growth the larger the dose re

quired Sarcoma is readily dispersed In cases of sarcoma arising in the glands toxemia may result from the absorption of tumor products Therefore the attempt should be made to cause slow absorption of the growth. I edunculated growths in the nasopharyny should be removed surgically. In cases of sessile and infiltrating growths surgery is useless but radium offers a possibility of cure

The author does not remove the glands primarily preferring to wait until the radium reaction has sub sided kadium produces at first an ordema and in creased vascularization with hability of some of the cancer cells to wander away Villigan extirpates the glands surgically whenever possible. The burying of emanations in the glands is unwise as with this method several microscopic gland areas remain un affected 1 ollowing surfical removal radium tubes may be buried in the field. The main artery should be tied to devascularize the area and the radium then applied externally

Malignant nasal growths are not common Sar coma varies greatly in its virulence. The higher up its origin the more unfavorable the prognosis. As a rule the treatment of choice is lateral rhinotomy and

removal of the growth

In the maxiflary and ethmoid sinuses exposure is effected by window resection through the camine fossa or lateral rhinotomy. I ollowing ligation of the external caroud the external glands are removed and the growth is exposed and curetted Ladium is then applied and surface irradiation given

Malignant disease of the painte is fairly frequent It is generally inoperable but is easily treated by

disthermy radium is rarely indicated

I rimary malignant disease of the tonsil is rare but squamous epithelioma extends back to the tonsil from the tongue fauces etc In this region surgical intervention is seldom successful and the growth is radium resistant. In layorable cases (growth small and not fixed) radium tubes may be inserted per os This requires great care. In the early stages the neoplasm is local and if treated at once is curable

Sime The aim of surgical diathermy is coagula tion by heat not cauterization. Coagulation is ob-tained for a distance of 14 in from the acting terminal A too strong voltage will result in cau terization, and a too weak voltage will consume con siderable time in raising the tissues to a sufficient

degree of beat

To remove the growth, the diathermy knife is plunged into the tissues beyond it and the current turned on The current is then turned off and the knife re introduced a little distance away. Cauter ization of the surface is avoided. After coagulation has been produced all around the growth, the neo plasm is cut away with the diathermy knife used as a knife. If encounter with large vessels is anticipated the main artery, lingual or external carotid is tied. Amesthesia is induced with chloroform.

In the treatment of affected glands, small masses of glands are removed when the artery is higated When the masses are larger or operability is doubtful, the primary disease is attacked first. This generally leads to a reduction in the size of the glands (removal of sepsis) theteby facilitating their later removal. In the absence of obvious gland involvement, Syme does not open the neck except to ligate the carotid. Each case must be treated according to

its particular requirements

Malignant disease of the lower phary ax can he ex possed surgically and then subjected to diathermy or treated with the suspension apparatus. The latter is preferable. Sometimes the two methods are combined. There is very little shock following diathermy but the appearance of well being may be only simulated. Persons with sepsis from malignant disease of the mouth are not good subjects for prolonged either amesthesia or operation. After three or four days they do not look so well, and in some cases sudden death occurs from heart failure.

The cases most suitable for diathermy are those of malignancy confined to the mouth. For operable cases of the lower pharynx and larynx, diathermy

is not suitable

In the discussion of this report, WOODMAN stated that by the use of diathermy in esophageal carcino ma he has rendered patients able to swallow naturally until death

HARRY C SALTESTEIN M D

NECK

Titley J H Exophthalmos The Mechanism of Its Production in Exophthalmic Gotter Ann Surg 1926 lxxxiv 647

It is generally accepted at the present time that in evophthalmic gotter there is an actual anterior dis location of the eyeballs. The possibility that an increase in the width of the palpebral fissure might be a factor in the mechanism of the displacement has not been emphysized.

Tilley reports a case showing marked anteroposte ror movement of the eye halls on opening and closing of the hids. This was evident on simple observation and shown also by kinematographic films. It sug gested that the position of the eyeball in evophthal mic goiter is dependent largely upon the restraining force of the hids.

The retrobulbar tissues must exist in a certain state of tension. Because of the rigidity of the walls of the orbit, this expansile force must be balanced by the eyeball which in turn must be partially restrained.

from movement antenorly by the eyelids. If the palpebral fissure is enlarged, the restraining power of the lids is of necessity reduced in geometrical ratio because of the sphenical shape of the eyeball. The importance of these facts in relation to the enlarged palpebral fissure and the infrequent closure of the lids in crophthalmic goiter is obvious. This mechanism assumes an increase in the retrobulbar tissue to occupy the spice and maintain the tissue tension resulting from anterior movement of the eyeball. If this explanation is correct, an increase of retrobulbar tissue is the result rather than the cause of anterior dislocation of the eyeballs.

It is possible that the unstriped muscle between the levator palpebre superiors of the upper lid and the tarsal cartilage and in the lower lid between the conjunctival formix and the tarsal cartilage which has been described by Mueller may produce a widening of the palpebral fissure by its contraction Attempts to diminish the size of the palpebral fissure hy a collodion dressing warrant further trial of Frank Documy Wideling and the palpebral fissure hy a collodion dressing warrant further trial of Frank Documy Wideling and the palpebral fissure hy a collodion dressing warrant further trial of the palpebral fissure hy a collodion dressing warrant further trial of the palpebral fissure hy a collodion dressing warrant further trial of the palpebral fissure hy a collodion dressing warrant further trial of the palpebral fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial of the palpebra fissure hy a collodion dressing warrant further trial dressing warrant further trial dressing warrant further trial dressing warrant further trial dressing warrant furt

Pemberton J DeJ Modern Management of Exophthalmic Gotter California & West Med 1926 xxv 610

Pemherton reviews the progress of surgery of the thrond and the difficulties encountered in the treat ment of exophthalmic goiter. After the surgical management had been improved, patients were encouraged to undergo treatment at an early stage of the disease and eventually the operative mortality was reduced from a bigh level to between 2 and 4 per cent.

Plummer's theories of the nature of exophthalmic gotter and of the value of jodine in its treatment are summarized Surprisingly soon after the adminis tration of iodine there is a very definite change in the symptoms especially in those of a nervous nature Nausea, vomiting and diarrhoa if present, often cease in a day The more serious the case the more effective the administration of iodine histological changes induced render the technical procedures of the operation easier The pre operative preparation must be adapted to the individual patient and include the administration of jodine a high-calone diet, and rest. In all instances how ever, the patient should be allowed to be up and about for several days before the operation. In the Mayo Chaic patients in a crisis are given a large amount of Lugol's solution sometimes from 60 to 100 minims daily As the crisis subsides 10 minims are giving three times daily until the oner ation is performed. Digitalis is no longer given routinely, and in any event its administration should be stopped at least three days before the operation

When the risk of operation is great, preparatory measures should be continued as long as they are effective. The patient should be allowed time to regain his strength after a crisis before operation is undertaken this may require a month or longer Pemberton has found the operative risk to be

relatively greater in children with exonhthalmic gotter than in adults. In the cases of children he therefore often prolongs the preparatory treatment

to two or three months

The success of the operation depends to a considerable extent on the patient's mental attitude The operator should secure the patient a confidence I ocal anæsthesia is to be preferred if the cooperation of the nationt can be obtained. If general anasthesia is necessary the type of anasthetic is of little con sequence as compared with the experience of the anæsthetist. I rolonged deep anæsthesia should be avoided. The most frequent technical complications of the operation are injury to the recurrent lary ngeal nerve and postoperative hamorrhage either of which may cause death

After operation Lugol's solution is given routine ly but its postoperative administration cannot be substituted for its pre operative administration Lugol's solution in doses of 10 minims daily is pre scribed for to o or three months after the operation

In 1815 cases of exophthalmic goiter treated at the Mayo Chinic in the period from January, 1924 to lanuary 1026 the mortality was just under 1

per cent

Brodersen N II and Harbitz H F Basedow s
Disease and the Results of Its Operative Treat ment in the Drammen Hospital (Mothus Basedown und Ergebnis seiner operativen Behand lung im Krankenhaus in Drammen) Acts chieurg Scand 1926 IN 197

The authors have re examined 132 patients who were operated upon for Basedon s di ease by Lied in the Drammen Hospital in the period from ro i to 1024 Most of them had been subjected to a radical operation performed in one stage under paraverte bral and local anasthesia with removal of the entire tight lobe the isthmus and the left lobe except a small portion of the upper pole

Of the eighty seven cases in which the typical radical operation was done the condition was cured in 874 per cent improved in 115 per cent and made worse in 1 1 per cent A doubtful recurrence developed in three and a fairly obvious recurrence in two In the cases of less radical operation the results were often transitory and the incidence of recurrence much greater. The patients were re examined from one to four years after the operation. Of thirty one patients who were operated upon for secondary Basedow's disease (adenomatous goiter with hyper thyroidism) twenty mne recovered

The authors di cuss the effect of the operation on such symptoms as exophthalmos tremer nervous ness insomnia and psychoses and upon the condition of the heart and pulse. They report three cases in which marked enlargement of the beart was great ly decreased. The pulse rate was decreased on the average by 31 beats. The average gain in neight was 7 9 kgm Special mention is made of the effect of the operation on menstruation and pregnancy Seven patients had a normal pregnancy and labor

from one to three years after the operation without recurrence of the goster

The postoperative reaction seems to have utle relation to the severity of the disease. The authors doubt that the reaction depends to any great extent upon the absorption of gland secretion during and after the operation

In three cases the operation was complicated by hamorrhage The postoperative complications in cluded bronchopneumonia (?) in one case tetany in two cases, collapse with cyano is and transitory acterus in one case, hoarseness for several neeks in one case and a transitory exacerbation of a psychosis in one case. Myxixdema did not occur in any case There were no deaths

Bartlett W Recognition of the Goiter Patient Unsuited to Thyroidectomy J Am M in 1936 lettett 1 /9 Lahes F II Substernal Colter J Am 31 lis

19 6 largen 1282

BARLETI mentions the six characteristic features that are thought, in most instances at least to characterie exophthalmic goiter. These are typical eye signs thalls and bruits in the cardinal vessels which seem to be present in every case vasomotor symptoms (vorsting diarrhors and sweating), nerv ous irritability mental sherrations of a primary nature, and enses and remissions which occur in most cases if the patient lives long enough Pa tients who are not ready for operation are those with a high metabolic rate increased non protein nitro gen, hypersensitiveness to oxygen deficiency lowered blood pressure loss of neight loss of self control and heart injury Most important of all as a contra indication to operation is definite heart injury Patients with heart conditions may he divided into three classes those who have a functional affection sith temporary exhaustion of the heart those with congestive heart failure and auricular fibrillation and those in which the heart is completely burned

Five classes of patients appear particularly un suited to thyroidectomy those with the fulminating condition, adolescents the insane those with

epilepsy and pregnant nomen

The preparation of the patient for operation re quires measures to correct the thyroid secretion decrease thyroid activity, restore the circulatory conditions and improve the neuropsychic condition In addition the preparation may be divided into indirect general measures direct local measures and indirect local measures. The indirect general measures include a sojourn in the ho pital of such length that toward the end of it the patient may be subjected to a subtotal thyroidectomy as the one and only operative procedure. The direct local measures such as irradiation injections and ligation are reserved for the obstinate type of case in which the condition cannot be improved sufficiently for operation under the plan just outlined When neither the indirect general nor direct local meas

ures avail, something may sometimes be accomplinhed by indirect local measures which influence the thyroid by the obliteration of septic toci in the teeth, ton.ils, sinises prostate or elsewhere although if possible this plan of action should be deferred until after thyroidectomy since it is general. In admitted that the patient's resistance is lowered by such muor procedures.

There are certain persons who cannot be res ored to a condition in which thyroidectomy seems advisable—those who die of thyroidectomy those whose condition is regarded as hopeless those who are intolerant of restrant and those who die of inter-

current diseases

A low operative mortality depends upon adequate preparation and the correct choice of patients

Laws call, attention to the fact that substernal gotter is readily overlooked and often not recognized until serious conditions have developed. The progressive descent of a gotter or the location of ade nomata or exist of the thirvoid where they may enter the mediastinum should be an outstanding indication for their surgical removal. Gotters that have entered the mediastinum and have deviated and fattened the traches have usually done so only after their presence as gotters has been obvious for a good many years.

The types of gotter that most commonly become intrathoracic or substernal are the adenomatous gotters. Cysts and colloid gotters also become substernal, but much less frequently. Substernal gotter area tensits without ventually producing a deformity of the traches in either its course or its contour. Such deformities which result in respirators, difficulties often do not manuest themselves until the patient is well along in veas and ill equipped to endure the serious orderlof their removal.

The basic factor in the diagnoss of intrathoracic gotter is the palpation of the lower poles of the thirmod. If both lower poles of the thirmod. If both lower poles of the thirmod can be telt to pass beneath the palpating finger as the gland ascends and descends on svallowing then except in cases of the rare substernal gotter due to aberrant thirmod tissue the goiter is not substernal or intrathoracic. However, if one or both lower poles cannot be demonstrated substernal gotter is to be senously suspected and measures should be taken to demon strate its presence or ab-ence

In deviation of the trachea, econdary to substernal gotter with flattening and narrowing the effect of the decrease of the tracheal caliber is usually evidenced by an audible increased respirators noise noted particularly after exertion. Dilatation of the superficial thoracic veins over the upper chest accompanies substernal gotter with fair constancy when the size of the mass projecting into the media-

tinum is great enough to interiere with the venous drainage of the goi'er

Patients with substernal or in rathorace gotter frequently complain of a feeling of substernal presure and frequent chosing attacks. A serr striking and interesting point in the hi-force is difficulty in hreatings when the head is canted to one side as when the patient sleeps on his side with a high pillow. Lake believes that this is or great value in the diagnosis of subsernal gotter particularly when such a gotter exists entirely within the chest.

The technical teatures of the removal of sub-ternal generates are the prevention of hamoritage and protection of the pleura, thorace duct and recurrent larvingeal nerve three structures which form the walls from which the intrathorace mass must be separated and the prevention of tracheal collapse

during the removal of the mass

Jacob S Grove, M.D

Guthrie D A Patient Who Underwent Total Larvingectomy Two Years 4go and Has Since Acquired a Useful Voice Pr c Roy Ser Med., Lond., 19 6 ns. Sect. Larvingol., 62

The anthor reports an unusual case of total larvngectony in a previously healthy man aged 33 years who was gasted during the war. For two cears the patient had had an increasing houreness, and for seven months an increating divergest which became worse when he lay down. Larvngoscop ceamination showed a swelling of the left ventirular band and in the left arrient of repion. Two weeks before the larvngectomy an emergence trache-orom became necessary. A diagnoss of epithelioma having been made on the basis of a piece of titure removed a total larvngectomy was done July 21, 102.— The patient made a prompt recover and when seen again four months later was working daily and had a good plaringent over

In the discullion following this report it was brought out that the patients worse is best during attacks of indigestion and depends upon contraction of the abdominal muscles in the cases of patients who cannot swallow air it is sometimes necessary, for the production of a voice to give an alkali followed by citing and.

Two other cases were reported. In one, in which the larvagectomy was performed eight years ago the voice which developed sub-equently could be

heard throughout a large hall.

The author believes that he patient does not swallow are conscoulty, but that the voice is produced by dilatation of the esophagus. The voice was recovered one month after the operation and since then has been gradually improving

HAROLD M CAMP M.D.

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Cheatle G L The Formation and Treatment of Fibro Adenomata of the Breast Arch Surg 1926 xiii 617

Cheatle describes the changes that occur in the terminal parts of the ducts and acini and the tissues of the breast that have been normal

Diffuse hyperplasia and the formation of intracanalicular fibro adenomata occur in the intraelastica tissue the tissue situated just internal to the elastic tissue of the duct

Diffu e adenomatosis and fibro adenomata arise from the pericanalicular and periacinous connective tissue the extra elastica tissue. Fibro adenomata of this type may contain intracanalicular growth which may show diffu e by perplasia of the intra elastica connective tissue.

The formation of intra ela tica and extra elastica fibro aden/mata is a progressive process that affects consecutively fresh ports of a segment of breast that ha heen normal and accounts for the lohulation of the times.

The correct treatment for fibro adenoma is excision of the segment of the hrea t that contains the tumor is tumor

The author emphasizes the fact that nodularity or temperess of a breast can be detected only in this persons. Nodularity of the breat in fat persons has been de cribed but is due only to lobules of fat.

RASHE BETTERN TO

Greenough R B Carcinoma of the Breast Am J Roenig nul 19 6 Xvi 430

This article is based upon the study of 175 cases of hireast carcinoma collected and analyzed with a cover toward helping to standarduce the reporting was supported to the standard control of the recording and to obtain a uniform method for the recording and classification or cases. Consideration is given mainly to the results of suggest treatment with any without prophylactic receiting ray treatment.

In about one halt of the cases of radical operation in this series roentgen treatment was given either before or after or both before and after operation Brief mention is made of the technique used

To facultate stati thal deductions the cases are tabulated according to the treatment given and the results obtained

As regards the duration of the disease at was found that the percentage of cures in the cases of duration greater than the average of the whole number (even as I a half month) was greater than that of those of shorter duration. This would undicate that a slowly growing tumor of long duration may have a better progno is than a more rapidly.

growing tumor which has been promptly recognized and treated

The degree of malignancy of the rowth was found to have a marked influence on the course of the disease. In cases of low malignancy the prospect of cure was better, even in the presence of aniliary involvement, than in the less extensive cases in the group of medium malignancy. No case of high malismancy even those without snvolvement of the aniliary nodes resulted in a cure

Making due allowance for the fact that this is a small series of cases the author believes that the following conclusions are justified

1 Radical operation performed before the disease has extended widely offers the best expectation of cure in cancer of the breast

Pre operative and postoperative artadiation with reentgen rays, as given at the Massachusetts General Hospital in the period from 1918 to 10 o does not appear to have been of value as an adjunct to surgical operation

3 Nearly 30 per cent of cancers of the breast are so malignant that with our present resources we are unable to cure them

4 In the remaining to per cent of the eases there is a reasonable hope of effecting a cure hy operation in the disease is not too far advanced

5 Education of the public and the medical profession to a better appreciation of the possible sig mincance of breast tumors and to more prompt ap plication of treatment may jet notably decrease the mortality of this disease.

6 In the treatment of breast cancer which is beyond hope of cure by operation foreign tradia tion offers a better prospect of relief than any other procedure

VOTH HARTLY VID

TRACHEA LUNGS AND PLEURA

Patterson E J Beads as Foreign Bodies in the Brunchi Mechanical Problems Presented and Their Solution Ann Otol Rhinol & Laryngo, 1026 XXXV 050

The author calls attention to the danger incurred in allowing children to play with heads which are not string securely on wire. She cites the rechannel difficulties presented by beads of different shapes and difficulties presented by beads of different shapes and textures in the bronch in distates that in removal with forceps the head must be grasped belond its greatest diameter. For this, the ordinary alligator forceps are poorly adupted. The forceps correctly constructed to grasp a bead must have the planes of the grasping forceps parallel instead of divergent and its better if the divide index bend slightly too and each other. The Tucker bead forceps meets these requirements. Removal by running a hook or wire

through the hole in the bead is possible only occa sionally $$\rm J_{EROME}~R~Head~M~D$$

Vinson, P. P. and Lemon W. S. Limitations in the Use of Liplodol in the Diagnosis of Diseases of the Lungs Med Clin A Am. 1926 v. 553

In discussing the limitations of lipiodol in the diagnosis of pulmonary disease the authors call attention to the necessity for preliminary broncho scopic examination. Four cases are cited to illustrate the hazards of drawing conclusions from pneumonography alone. In the authors' opinion the type of method for the introduction of the lipiodol is immaterial if a direct inspection of the trachea and bronch is made previously.

Ochsner A Bronchography Following the "Passive Introduction of Contrast Media into the Tracheobronchial Tree Wisconsin M. J., 1926 VV., 544

Ochsner describes the technique of the 'passive' introduction of iodized oil into the tracheobronchial tree which was first described by Nather in 1925. The palatine arch of the pharynx and the posterior phary ngeal wall are anæsthetized with ro per cent occaine. This produces a sensory anæsthesia so that the refiex act of swallowing is interrupted. The degree of anæsthesia is determined by the mobility of the larynx. As soon as the patient is unable to move the larynx upward on attempts at deglutition, the anæsthesia is complete.

The patient then stands behind the fluoroscopic scene and is give newarmed iodized oil. The oil is allowed to roll back into the pharynx and the patient instructed to aspirate it by taking short, deep breaths. His body is tipped slightly to the right or the left, depending upon the side to be filled

The 'passive" introduction of the iodized oil into the tracheobronchial tree is superior to the other methods so far advocated because it is simple and easily applicable for fluoroscopic observation. Be cause of its simplicity, it may be used in a larger percentage of cases than more complicated procedures

Riviere C Bronchiectasis The Medical Aspect

Roberts J E H Bronchiectasls The Surgical

Aspect Lone 1 to 6 ccu 1102

RIVIERE points out that bronchectasis, the essential characteristic of which is a bronchial dilatation may arise from a multitude of disease processes. The slighter cases seen especially in children, are not to be overlooked. The severe cases of the suppurative type originate in bronchial inflammation or obstruction or the aspiration of septic material. The symptoms vary with the amount and nature of bronchial dilatation, the adequacy of drainage and the severity of the infection. The diagnosis of bronchiactasis has been facilitated by two recent advances. (1) bronchoscopy, and (2) the injection into the bronch of substances opaque to the roentigen.

ray The latter can be done directly through the bronchoscope or by needle through the cricothy roid membrane into the trachea

In the treatment it is best to be satisfied with a moderate result that is the rehef of dangerous symptoms such as can be accomplished by postural drainage and the use of the crosoite chamber supple mented by drugs and if necessary, by bronchoscopic treatment. This applies especially to bilateral cases

If such measures fail, more radical methods may be tried These have for their aim the three cardinal principles in the treatment of chronic pulmonary suppuration drainage compression and extirpation The result will depend upon the suitability of the method for the type of case Pneumotomy is suita ble for single large suppurating cavities Phrenic exeresis may eliminate and favor drainage in a strictly basal lesion Pneumothorax and thoraco plasty should be reserved for unilateral cases in which the lung and cavities appear to be collapsible Lohectomy and cautery lobectomy can be considered only for well localized areas of disease. The latter operation seems materially to enlarge the scope of the older pneumotomy and to establish external drainage in a larger number of cases However the dangers of air embolism and hæmorrhage are great Under some conditions a combination of two or more methods may best meet the requirements

In discussing anticipatory treatment Riviere points out the dangers of bronchial aspiration of septic material To overcome this danger the head should be kept low after all operations until the

cough reflex is fully established

ROBERTS deplores the fact that the surgeon sees cases of bronchicctasts in the advanced stages, when the patient is enfeebled by long continued towemta, loss of sleep from constant cough recurrent harmornhage and possibly amyloid disease. He urges early diagnosis with the aid of the newer methods. Medi cal treatment, in his opinion, is pallative in most cases except those of children. A quick relapse usual is follows its termination Surgical procedures of some severity are justifiable because without them the expectation of life is not great and in cases with much infection life is not enjoyable. Before surgical measures are undertaken, a proper course of medical treatment should be instituted to get the patient in the best possible condition.

With regard to the different procedures, their indications, dangers and results, surgeons are nearly in accord. However, Roberts prefers thoracoplasty for permanent collapse of the lung when preliminary artificial pneumothoria, has diminished the sputum considerably and when there has been marked chest contraction and mobilization of the chest wall will permit the lung to contract further. Prophylactic treatment by artificial pneumothoriax may reduce the number of cases suitable for surgery, but when the condition is already established a collapsing operation should be done in the early stages when a limited rib resection is more likely to produce a cure. Roberts reports four illustrative cases.

Roberts reports four mustrative cas

Even when the operation is only publicative it will in the eritie cases enable the patient to earn his living without constant resort to a cour e of medical living without constant resort to a cour e of medical Surgery can do little in bilateral cases but as unlateral cases constitute over 50 per cent of the total number the cloe e cooperation of the physician and surgeou is of great important.

MATRICE MEYERS M.D.

Schlaepfer K. The Effect of the Ligation of the Pulmonary Artery of One Lung without and with Resection of the Phrenic Nerse Area Suff. 20 6 xm 623

The outhor reviews the late results following ligation of the left pulmonary afters in dogs without and with simultaneous section of the phrenic nerve. The main points made in the article may be sum mainzed as follows.

I Ligation of the pulmonary attervis avvocated with the firit rapid development of a collateral circulation through the bronchial vessels but even after two years the extent of fibrosis in the lung with the hgated pulmonary arterviss slight.

When ligation of the pulmonary artery is associated with simultaneous resection of the phrenic nerve fibrosis of the lung is much more extensive but there is a distinct retardation in the formation of a collateral circulation through the bronchial artery

3 These two facts seem to be linked together as the most extensive fibrous reaction occurs about the radical of the branchial artery

4 It wolvious that simple ligation of the pulmonary arrery is not an efficacious therapeutic procedure to stimulate throus of the lung in tubercul) is and that more beneficial results might be expected in figation of the pulmonary arter; is associated with simultaneous resection of the observed results.

5 Also worthy of mention is the evidence of increased intrapulmonary pres are after ligation of the pulmonary artery as expressed by the findings both gross and microscopic of right sided cardiac hypertroph. RALES B BITTMAN MD

Bettman R B The Production of Artificial Pieural Adhesions An Experimental Study Surg Gynec & Obst 1926 xint 399

The formation of pleural adhesions 1 of great importance in cases of lung abscesses which tequine and drainage and those in which it is advisable to perform to lobectomy by the Graham cauter, method No hown method is entirely satisfactors in the product to not adhesions. In experiments on dogs the author tried out every method be had heard of in order to ascertain which gave the hest results. He found that inteture of todare formatin alcohol and other chemicals could be injected into the pleural other chemicals.

space in quantities as large as 5 ecm without producing adhesions

The method which gave the most satisfactor, results consisted in burning a piece of ordinary braid in the pleural space in such a manner as to wall off the desired area. The braid was allowed to remain in sith for a week. When it was removed firm adhessions were invitably found

The tape was burned by making an intercostal stab wound threading the tape through the wound into the pletical space and then allowing it to emerge through a second stab wound. The tape was anchored to the interco tal muscles and cut off short and the skin doe do show it. It the end of a week it was removed by re-opening one of the stab wounds.

Davis II II Chronic Empyema Vedraska State

The author emphasizes that chronic emps ema can be prevented by the proper treatment of emps can in its acute stage. Factors that I awar chronicits are incorrect timing of the operation in inadequate drain age the retention of foreign bodies used in establishing drainage esteomicilities of the ends of the resected ribs bronchopleural fistule and side pockets and lateral branch sinuses. Side pockets and lateral branch sinuses are to be suspected if after ten days of Carrel Dakin treatment, the cavity is not free from may

Daws is greatly in favor of the Carrel Dakin treatment of acute emptyems. He states that if it begon before too much fibrous it sue is formed on the pleara the cavity will be sterilized and entitle obliterated by this treatment alone in most cases. When it is not enturely obliterated the obtained cleans it and greatly reduces its sugar Further operation should not be considered before the cavity treatment stationary in size and its capacity 1 not decreased by forced expiration with the mouth and mose held closed.

CESOPHAGUS AND MEDIASTINUM

Lundgren A Dilatotion of the Esophagus Due to Tuberculous Retraction of the Cardia (Dilatotion esophagienne provenant d'un rétret e ment imberculeux du cardia) 4cts chirurg Scand

1916 In 1,2

The author reports a case of exceedingly marked dilatation of the exophagus caused by a tuberculous process in the cardia

Autopsy revealed, in the very tough and their end connective tissue surrounding the cardia two lump larger than Spinish nuts which had a typically tuberculous appearance both microscopically and macroscopically. During the early days of the patient's stay in the hospital the ossiphageal distation was attributed to cardiospassing.

SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

McEachern J S The Prevention Diagnosis and Treatment of Postoperative Peritonitis Cana dian M Ass., J 19 6 vvi 1421

McEachern deals chiefly with the spreading type of acute peritonius. In this condition pathogenic bacteria are always present. The bacteria are introduced into the pertonical cavity by the hands of the operator, the instruments, gauze, ligatures, etc. or from the skin of the patient's abdomen, an infective focus in the abdominal wall or an opening in the intestinal canal. They may enter it also by the hiematogenous route, but this is rare. Rough handling of the intestine forcible packing with gauze and the tearing apart of adhesions leave a devitalized field favoring infection and the growth of bacteria. These procedures must therefore be avoided. Preliminary cleansing of the intestinal tract is essential.

The diagnosis of postoperative peritoritis is based upon vomiting and pain persisting beyond the usual postoperative period, increasing rapidity of the

pulse, and abdominal distention

As treatment, some surgeons advocate early purgation to drive out intestinal toxemia while others prescribe absolute rest with morphine, Towler's position nothing by mouth, gastric lavage, continued proctocly six, and intravenous injections

Occasionally drainage of the thoracic duct and intravenous injections of antiseptics are used

antiseptics are used Chester L Crean M D

Adams J E Peritoneal Adhesions and Their Treatment Practitioner 1926 cxvii 273

The pathology of adhesons in the peritoneal evity is that of inflammation. Two types of adhesions are recognized viz fibrinous and fibrious. These are called also temporary and 'permanent' adhesions and may be aseptic, as in response to injury or infective. Temporary adhesions may be come permanent if fibrous tissue is laid down on the fibrin already deposited on the irritted serous surface. For the formation of permanent fibrous adhesions two poposing serous surfaces must be damaged sons two opposing serous surfaces must be damaged.

The fate of extravasated blood in the peritonical cavity and its relationship to adhesive peritonitis is important, as such blood is thought by some to produce adhesions. Although blood in the peritonical cavity is a foreign body, the peritoneum has powers of absorption and therefore blood is no more an irritant to it than is catgut Of course if the blood harbors organisms, any type of adhesions may result, and since blood is no excellent culture medium it is important that no great quantity of it be left in the peritonical cavity at the close of an operation

The prevention of peritoneal adhesions is much easier than their destruction

Irritation of the peritoneum by antiseptics is to be avoided. The danger from the use of iodine, picric acid, and similar substances on the abdominal will is negligible if the skin so treated is dry before the abdomen is incised but the intestine must not be allowed to come in contact with the iodized skin

Drying is detrimental to endothelial surfaces therefore any intestine withdrawn from the abdomen

must be kept moist and warm

It has been found difficult to produce adhesions be tween foreign bodies and the small intestine. As the latter is always moving it is thought that peristalsis is a factor preventing adhesive peritoritis. Accordingly the author gives it can of pituitary extract for three or four days after the operation of enterolysis and then every other day for a week. Eserine salicylate grif/ao may be used similarly.

Tibrolysin, which favors the vascularization of scar tissue may be administered intramuscularly, or iodolysin or iodine by mouth to promote the ab

sorption of inflammatory tissue

RAYMOND GREEN, M D

GASTRO INTESTINAL TRACT

Mayo C H A General Résumé of Peptic Ulcer Boston M & S J 1926 exev 988

The experimental production of peptic ulcer in animals has not revealed the entire cause of the lesion in man. Mayo believes that the gastric tissues are vulnerable to attacks by bacteria under certain conditions which impede or interrupt the capillary circulation in the mucosa. He suggests that spasm of the muscles and vessels in response to disturbance of the sympathetic nervous system is the ultimate cause.

Hæmorrhage occurs in about 25 per cent of the cases, but in only one third of these is it senous Severe hæmorrhage is usually followed by long re missions of all of the symptoms. The absence of symptoms in cases in which healed ulcer is unexpectedly found at autopsy is attributed by the author to variation in sensitiveness of different areas of the mucosa.

It is to the best interests of the patient for the internst to re assume control of his diet and general care after operation. On the other hand, there are occasions when the surgeon is justified in interfering, such as when prolonged medical treatment is in effective and when stomatal ulceration follows a short circuiting operation.

A review of the progressive steps in surgery of the stomach from Billroth's operation to the operation of Polya leads up to a discussion of the ments of gastric resection in the treatment of duodenal ulcer Mayo believes that this type of operation is too extensive for the purpose and that it should not be used generally until time has disclosed its true merits. It was propo ed in the hope that it might materially lower the incidence of gastroieiunal ulcer Since in most cases this lesion does not appear for two or three years, the Polyn operation can be compared with it only after that lanse of time Gastro jejunal ulcer has already followed resection of the stomach the author has seen two cases

Connor C L The Etlology and Pathology of Peptic Ulcer Boston W & S J 1926 trev 971 Davis E L The Diagnosis of Peptic Ulcer by X Ray Boston M & S J 1926 exes 977 Lattey F 11 The General Management of Peptic

Ulter Boston M & S J 1926 etc. 980
White F W The Medical Aspects of Peptic
Ulter Boston W & S J 1926 etc. 983

Co Non considers the relation of the development of pentic ulcer to the anatoms and physiology of the stomach and duodenum. The pylorus the pyloric antrum and the part of the lesser curvature near the cardia are subject to great mechanical disturbances This region posse ses its own muscular system. The duodenal built forms a nough where stasts may occur

and re ult in the chronicity of an ulcer The occultarities in the blood vessel distribution about the pylorus and duodenum may have a great deal to do with the occurrence of acute ulcers blood supply of the fundus and greater curvature varies greatly from that of the lesser curvature and pylorus The right and left gastro epiploic arteries anastomose with each other and with branches from the gastrie artery. The gastric pathway is supplied only through recurrent hranches of the gastric and pylonic arteries Blocking of these arteries may play an important role in the development of pyloric ulcer

The pylorus is the acid retaining part of the stomach. Here in addition to mechanical disturb ances there is a greater acid concentration. From these facts Aschoff developed his mechanical functional theory of ulcer and Sippy his medical

treatment of peptic ulcer Moynihan attributes peptic ulcer to exces Montgomery sive smoking and hypersecretion produced four ulcers in a series of sixty gastro enterostomies in dogs and concluded that the ulcers develop from hæmatomata in the suture line Mounihan and many others believe that a subtotal gastrectomy with removal of the acid secreturg muco a of the stomach will prevent the recurrence of ulcer and the development of gastrojejunal ulceration

Rosenow found streptococci predominating in thirty one of forty chronic ulcers Intravenous injections of the streptococcus into rabbits produced ulcers in a large percentage. Under similar experi mental conditions other bacteria also produce mucosal hamorrhages and ulceration There is abundant experimental proof that many ulcers are of hamatogenous origin

Stewart believes that bacterial infection and intoxication are the most important direct causes of acute gastric and duodenal ulcers. He found fifty three acute ulcers in 1 500 autopsies. Most of them were associated with acute suppurative disease else

where in the hody

Chronic ulcers develop on acute or subscute lesions Most acute ulcers of the peptic type in man are due to hamatogenous streptococcal infections emboli or thrombo es The peculiarities of the blood supply of the pylorus favor the occurrence of such fesions in the pylonic area. The chronicity of ulcer may be explained by continuation of the infection great loss of normal tissue endarteritis with resulting poor blood supply and macce sibility of the lesion to treatment

Days says that the examination of the eastro intestinal tract with the \ ray and opaque meal is now generally accepted as the most accurate method for ulcer diagnosis. The best results are obtained by the combined use of the films and the screen At operation the ulceration is usually found to he a small shallow erosion of the mucosa, penetrating an ulcer with a deep crater a perforated ulcer of a carcinomatous ulcer The perforative type of ulcer with the formation of an accessory pocket outside of the stomach is usually the most readily demonstra ble Enrly carcinomatous ulcers are not as a rule to be distinguished from benign ulceration

The roents ch signs may be conveniently divided into two classes

 Primary and practically pathognomonic sign (a) the niche (b) the accessory pocket (c) a constant deformity of the duodenal bulb

2 Secondary and corroborative signs (a) the

incisura (b) the spasmodic hourglass deformity, (c)

gastrospasm gastric retention

In a fair percentage of cases the positive signs cannot be demonstrated when the ulcer is situated on the posterior wall of the duodenum or stomach Under such circumstances the diagnosis must be based on the indirect phenomena. When the incisura or indentation of the gastric wall opposite the supposed elect site is constant it is almost positive evidence This incisura must persi t after bella donna treatment

A residue from the barrum meal after six hours is very often associated with gastric ulcer. Constant deformity of the duodenal bulb is an important sign Nine tenths of all duodenal ulcers occur in the bulb and on the anterior wall Occasionally however the bulb may be deformed from pericholecystitis cystic adhesions or adhesions postoperative. None of the secondary signs alone is diagnostic of ulcer Only about one person in ten with gastric symptoms has an ulcer The relative frequency of gastric and duodenal ulcer is estimated at 13 or 14 The accuracy of diagnosis varies with the ability and experience of the examiner The average roent genologist should be able to make a correct diagnosis in from 75 to 80 per cent of cases. The site of the ulcer is of greater importance than the size of the lesion. The clinical findings and history must also

he considered

LAHEY is convinced that gastric and duodenal ulcer are in no way primarily surgical diseases They become surgical only when they have been demon strated to he non medical in the course of medical treatment It is unjust to subject patients with ulcer to surgery without a careful trial of medical management Because of the postoperative com plications of gastro enterostomy such as jejunal ulcer the higher mortality of partial gastrectomy, and the uncertain future for the achylic stomach. the surgeon operating for peptic ulcer should be certain that a thorough pre operative medical regime has been tried. Lahey uses the Sippy plan of treat ment, and hospitalizes the patient for three weeks if necessary During this time the diagnosis is estab lished relief of symptoms is obtained, and the patient is taught the dietary routine he must follow for the coming year

Surgery is indicated definitely when pain cannot he relieved by frequent feedings and alk-alinization, when perforation complete or incomplete, is demon strated by the \times \tau_3, and when there are recurring hemorrhages with persistent blood in the stool. The occurrence of a single large hemorrhage or of frequent hemorrhages in the case of a patient who has never received medical treatment does not contra

indicate a course of medical treatment

Pyloric obstruction due to scar tissue is a certain indication for operation, as is also carcinoma of the stomach Gastro enterostomy is indicated for duodenal ulcer resisting medical cure Partial gas trectomy should he reserved for the large bleeding or penetrating ulcers of duodenal or gastric origin which have resisted medical therapy Lahey agrees with Finsterer that partial gastrectomy removes the ulcer and acid hearing area, gives lasting relief of the symptoms and greatly reduces the danger of jejunal ulcer, but he accepts this operation with its higher mortality and persistent achilia only for cases of malignant gastric lesions and those in which a grave suspicion of malignancy is warranted. In conclusion he emphasizes that the surgeon treating cases of peptic ulcer must accept the responsibility for proper pre operative and postoperative medical treatment

Wittre states that in the past the surgeon has had the advantage over the physician in the treatment of peptic ulcer because he could see and palpate the ulcer. The physician has been treating many ulcers for "hyperacidity," and it is probable that many patients have been treated for ulcer when the condition responsible for the symptoms was gall hladder disease or appendictits. Therefore the older medical statistics on ulcer are unreliable.

Today, peptic ulcer is diagnosed correctly by combined methods without operation in 90 per cent of the cases. This is due largely to careful X ray examination which not only reveals the deformity

caused by an ulcer but also rules out pathological conditions in the gall bladder and gastro intestinal tract in general. At the present time the diagnosis of duodenal ulcer is one of the most definite of chinical diagnoses

In the selection of cases for medical treatment cases with complications such as hæmorrhage obstruction, and perfortion must be excluded Medical treatment gives hetter results in duodenal utcer thru in gastric utcer and in the cases of persons under 45 years of age than in those of persons who are older. The most favorable cases are those with a short utcer history short attacks, and long re missions, and topse of patients who are intelligent and willing to see the physician occasionally during and willing to see the physician occasionally during

The plan of medical treatment must he simple and practicable. Most persons cannot afford long periods of hospitalization. A hland diet, consisting at first of milk and egg or milk and cream or cereil gruels is indicated. Frequent feedings are important, they should be given six times daily or oftener at the beginning. Alkalies are very heneficial. Attopine relaxes spasm and checks hypersecretion. Bismuth is of some value. The use of tohacco should be restricted or torphinted. Fore of infection must receive

an observation period of a year or two

proper attention Medical treatment has no immediate mortality and results in a lasting cure in from 50 to 60 per cent of cases of duodenal ulcer and about 30 per cent of cases of gastric ulcer

Most important is the proper education of the patient, the removal of infection, and the prevention of recurrences. A good follow up system is essential. It is unwise for the young surgeon to operate upon many uncomplicated duodenal ulcers in young persons with long remissions. It is generally agreed that medical traitment is safest for the first gross hemorrhage in ulcer. Ninety per cent of patients recover from acute homorrhage even if the hleeding is severe. Recurrent hleeding under medical care indicates preliminary blood transfusion plus surgical

excision of the ulcer

A cureful follow up continued for from three to five years showed that of 154 patients treated medically for duodenal ulcer, 57 per cent were cured, and of fifty four treated medically for gastric ulcer 30 per cent were cured. These percentages appear relatively low because of the length of the period of observation In 18 per cent of the cases of duodenal ulcer and 42 per cent of those of gastric ulcer surjectal treatment was given. In the surgically treated cases of gastric ulcer there were two death the

The percentage of gastric ulcers that later develop cartinoma has been reported as high as 71 per cent and as low as 2 per cent. In White's series only one case of gastric ulcer developed carcinoma

In conclusion White says that earlier diagnosis

and tooldison white says that earlier diagnosis will materially improve the results of both the medical and the surgical treatment of ulcer. If medical treatment fails surgical treatment is indicated Better medical treatment means frequent feedings, better care during the remissions, better education

of the nationt and a careful follow up system. The most logical procedure is medical treatment for the early mild uncomplicated cases and surgery for chronic or complicated ulcers Surgery is of value chiefly for the serious and difficult cases

IONA M VASOR A D

Jordan S M The Calcium Chloride and Carbon Dioxide Content of Venous Blood in Cases of Gastroduodenal Ulcer Treated with Alkalfes J Am M Ass 1926 IXXXVII 1906

In a series of 100 cases of gastroduodenal ulcer treated at the I shey Ulinic the author studied the relationship of alkalæmia for disturbance of the acid base equilibrium toward the alkaline side) to the Stony treatment of ulcers The clinical symptoms of alkalosis were noted in three cases. In the mincty seven others there were no untoward symptoms at though very large amounts of alkalies were admin istered over a period of from six to twelve months

Forty one patients with ulcer and ten normal persons were studied over a period of three weeks, the former at the beginning of their management accord ing to the Sippy method and the latter at their usual activities and ingesting no alkalies not contained in their usual diet. All of those with ulcer made a satisfactory clinical progress without signs of

alkalæmia

A comparison of the results in the two groups of cases showed a wide variation with higher maximum and lower minimum levels for calcium chloride and carbon diovide contents in the cases of ulcer than in the normal persons. In the ulcer cases the average level of plasma chloride in the senous blood was lower by 23 mgm per 100 c cm and the average level of carbon dioxide content was higher by 2.7 per cent by volume than in the normal cases The aver age serum calcium content was approximately the same in both

These estimations suggest that the acid base equilibrium is at first somewhat disturbed by the influx of alkalies but within a few days the levels of the chloride and carbon dioxide contents approach the normal and in the great majority of cases there is no chemical or clinical disturbance due to alkalosis In the small percentage of cases that show chinical signs of alkalamia the carbon dioxide content shows a marked rise the calcium content tends to rise and the plasma chloride tends to diminish. The level of carbon dioxide content at which symptoms appear in these cases is 70 per cent by volume. This has been taken as an index and anything over it is regarded as beginning alkalæmia indicating a reduction in the alkalies

ARTHUR L SHREFFLER VID

Brunn 11 and Pearl F Diffuse Gastric Polyposis -Adenopapillomatosis Gastrica Report of Five Proved and Seven Probable Cases Surg Gynec & Obst 1926 lein 550

Gastric polyposis may be congenital or arise from an inflammatory condition. It may appear as dis

tenct polyps of an adenomatous character or as slightly elevated hypertrophic plaques en nappe The latter may have a telangiectatic origin

The disease frequently runs a course without symptoms and may be discovered only at autopsy When symptoms are present they are of the same type as those associated with other gastric disorders viz epigastric discomfort distention vomiting etc Abdominal pain or distress occurred in 28 per cent of the cases reviewed by the authors. The nearly constantly present anacidity is often manifested by diarrhoea Comiting anorevia constipation and weakness were each present in about 17 per cent of the cases reviewed, and hamatemesis occurred in 8 per cent

The most valuable diagnostic aid is the roentgeno gram The diagnosis is facilitated also by gastros copy and examination of shreds from the gastric washings The characteristic \ ray finding consists in irregular defects in the margin of the gastne shadow at the site of the tumors. The masses prosecting into the gastric lumen produce in the harium shadow an indentation with ragged edges and as a rule a streak of barrum continues along the curva ture of the stomach extending through the lesions lor a variable distance

The differentiation of gastric polypo is from carcinoma is based upon the fact that in malignancy the defect is usually annular involving both curva tures the gastric wall at the side is obliterated and the defect increases in size fairly rapidly

The treatment of gastric polyposis is surgical As much of the tumor bearing area as possible should be crossed. The remaining tumors should then be individually excised their bases cauterized thorough is and the defect in the mucosa closed by suture

HOWARD A MCKNIGHT MD Some Practical Problems In Intestinal Obstruction \co Orleans 11 & S 1

1926 lune 304 Intestinal obstruction is characterized by ab dominal para coming on suddenly as colic with tenderness vomiting which is more or less persist ent according to the location of the ob truction and p agres we distention without marked muscu lar rigidity. If the e symptoms are present and there is a history of constitution persisting for

longer than usual and two enemas given an hour or

two apart fail to produce any results operation is indicated without further delay Pathologists and surgeons agree that there is a poison generated in the occluded intestine which gives n e to a toxemia and the toxemia is the

caus of death

Parham T W

Jejuno tom; should be done by the Long Witzel valvular method Every possible inch of the upper inte tine should be made available for lavage and the introduction of nutriment. In any advanced case in which a jejunostomy is done it is well to add a carcostomy the lower drainage being of decided ad vantage

In intestinal obstruction there is at first a fall of chlorides in the blood and then a nse in the non protein and urea mitrogen and the carbon dioxide combining power. The rise in the carbon dioxide combining power is probably an incident in chloride metabolism in which sodium ions are set free uniting with carbon dioxide to form hierarhonates and thereby causing an alkalosis. Fle chlorides seem to exercise a protecting influence, holding in check the non protein mitrogen rise and the carbon dioxide combining power. The addition of chlorides to the blood will delay the development of the toric effects and their early use in conjunction with drainage of the obstructed intestine will often bring about a decided amelioration and sometimes prompt recovery.

The intravenous injection twice dails, of from 500 to 700 cm of a r per cent solution of sodium chloride will maintain life, whereas without such injection death occurs within three or four days. The combination of glucose with chlorides and sufficient water greatly assists the chimination of the urea and non protein introgen and stops the further

accumulation of these substances

When an obstruction is released by operation, reverse peristalsis sometimes carries the faced con tents rapidly up into the stomach, and vomiting results in drowning if the glottic reflex has been almoished by the amesthetic. At the first sign of this complication the patient's herd should be lowered and gastric lavage given until the regurgitation is stopped. The anasthetic is of importance also on account of its damaging effect on the liver in patients who are poor risks. In such cases nitrous oxide and oxygen and ethylene are the anæsthetics of choice

Venoclysis or the Matas intravenous drip may render invaluable service. Morris H. Kann M.D.

Williams B W The Importance of Toxemia due to Anaerobic Organisms in Intestinal Obstruction and Peritonitis Bril J Surg 19 6 nv 295

The resemblance of the clinical manifestations in acute peritoritis acute intestinal obstruction and the toxima associated with gas gangrene suggested to the author the possibility of a common cause underlying these conditions and led to a study of the abnormal proliferation of anaeronic organisms in the obstructed intestine.

Of the various anaerobic bacteria found in the human intestines, the bacillus welchi is by far the most abundant and most constant tour producing organism. Under normal conditions the lower part of the small intestine is the only part of the bowel it is found in increasing numbers higher up in the intestine, eventually being present in the vomitus.

Fingloying accepted bactenological standards with suitable controls the author found the bacillus welchin almost constantly in the vointies in cases of acute obstruction and advanced cases of peritonitis in

man and experimental animals

A toxin elaborated by the Welch hacillus was clearly demonstrated. It was extremely labile, rapidly destroyed by heat or variations of audity, non dialyzable and letbal to mice. It filtered through a Berkfeld candle very slowly. A considerable concentration of this toxin was found to be present in the small intestines in cases of peritoritis and obstruction. No such town was demonstrated in cases of obstruction of the large intestine or in the normal human ileum?

Both clinical and histological evidence has con vinced the author that the absorption of bacillus welchir toxin in intestinal obstruction and peritoritis

15 the same

As anti gas gangrene serum had been found of value in the treatment of gangrenous appendicitis in France it was decided to administer this serum in a series of sever cases of appendicitis with pentonitis. In eighteen cases so treated there were only three deaths, a mortality of 117 per cent. The climical effects were often striking and immediate. Restless ness was greatly diminished or aholished cyanoiss disappeared, the pulse rate fell rapidly, distention disappeared, and the howels moved spontaneously within a few hours.

Because of these good results, the antigas gangrene serum was administered for the toxemia in nineteen cases in which operation was performed for intestinal obstruction. The author states that he has been unable to find any record of the use of this serum in this condition hefore. The clinical improvement following the treatment was similar to that occurring in peritonitis and the mortality

was reduced from 24 8 to 9 3 per cent

Williams emphasizes that the use of the authorin no way alters the accepted surgical treatment of intestinal obstruction or the removal of the causes of peritonius. It is advocated solely to comhat the tovenna of intestinal origin consequent upon stagmation of the contents of the small intestine a tovenna which otherwise cannot be dealt with successfully. It is suggested that the serum should be used routinely whenever there is evidence of small hovel involvement and continued until the small intestine is functioning normally and the evidences of the tovenna have entirely disappeared.

The serum used in the cases reviewed was antigas gangrene serum containing bacillus welchin and vibrion septique antitovins. The initial dose recompanded is at least 80 ccm given intramusularly and 40 ccm given intravenously. Following this, from 40 to 80 ccm should be given intramusularly every day until the evidences of toxemia and obstruction have subsided. Intravenous and intra musular administration as a prophylactic measure

is suggested

The author states that the experiments reported are the first to indicate the presence of a true toxin of intestioal origin its nature, and the conditions necessary for its production

DON K HUTCHENS M D

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Smlth J F and Christensen II II Intestinal Fistule a Method of Presenting Skin Fx coriation Surg Ganec & Obst 1026 Izen 701

High fi tule of the intestines are very difficult to treat. The intestinal enzymes cause digistion of the skin with burning and pain. The patient soon learns that his discomfort follows the ingestion of food and

refuses to eat

In the authors method of preventing exceptation of the skin in such cases the enzy mes are inhibited by their absorption in inorganic substances. The substance preferred is kaolin which is readily available easily sterilized inexpensive and suitable for a surgical dressing. A thin paste of kaolin prepared with glycerine is applied to the skin surrounding the fistula and covered with a generous layer of dry kaolin to absorb the escaping fluids. At first this dressing is renewed every five or six hours but after contraction of the fistula two such dressings in twenty four hours are sufficient

HOWARD A MCKNIGHT M D

Stallman J F II Chronic futussusception in Children inn Surg 1026 lyvy 735

Chronic intussusception is a rare form of chronic intestinal obstruction which occurs usually in adults The cause is a tumor fn the infant primary intus susception is seldom associated with a tumor ulcera tion or tuberculosis of the bowel

Chronic intussuscention may exist without any symptoms of intestinal obstruction the bowel move ments may be normal and blood and mucus may be absent

As a rule there is excessive mobility of the excum due to an abnormally long mesenters

This article is based on nine cases of chronic intus susception occurring among 11, cases of intussus ception of all kinds admitted to the Hospital for Sick Children London during a period of five years Seven of the patients were males. The youngest child was 8 months old and the oldest 11 years The

average age was 4 years and 10 months It is extremely important that the condition be recognized early before the irreducible or permanent stage is reached. Cases of permanent intussus cention do not develop intestinal obstruction early Death results from peritoritis caused by bursting of the intussusception and not from the intestinal obstruction per se After the invagination of the bowel becomes permanent at cannot be reduced even at autopsy and resection is usually too severe an ordeal for the patient

The basic diagnostic signs are intermittent colicky nains and tumor formation. Often the initial symptoms are vague and misleading. Attacks of abdominal colicky prins are a constant feature They vary in frequency from weeks to months The onset is usually sudden and severe Vomiting usually occurs at the onset Blood may be absent from the stools Blood and mucus were present in five of the author's cases Absolute constipation strongly sug gests a terminal pathological condition

In four patients the patient's mother first noted the presence of a lump in the abdomen during the attacks of colic In eight a tumor was felt upon clinical examination Inoretia and rapid wasting were prominent features

The mere invagination of one segment of intestine into another is not sufficient to produce intestinal obstruction Inflammators hyperemia and cedema are chiefly responsible for obstruction and the inter ference with the blood supply of the intestinal walls Accross and ulceration of the bowel walls finally occur with the passage of blood and mucus and a permanent arreducible intussusception develops

The presence of a primitive mesentery to the colon will permit the head of the intussusception to travel far before obstruction occurs The long mesentery of the ileum allows it to pay out considerably before vascular occlusion results. Hence in ileocacal intus susception the symptoms are often mild and in definite for a considerable length of time

The presence of an abdominal tumor together with emptiness of the right iliac fossa (Dance's sign) are valuable diagnostic points. Violent abdominal pain followed by nausea and vomiting is often a surgical condition unless true diarrher soon intervenes

The author suggests that all intussusceptions may be acute with common diagnostic features but varying in degree according to the changes in the bonel nall JOHY W NIZLM MD

Alvarez 33 C A Practical Treatment of Duodensi Ulcer J Im If Iss 1026 ITTEN 086

Only cleven of 100 patients with duodenal ulcer questioned by Alvarez hall had what might be called a Sippy cure and only eighteen more had been given food between meals. It was apparent from this study that the general practitioner is not doing much for his patients with ulter. This is because the text books tell him only of the Sippy treatment which although good is too complicated for him and too expensive for the patient. The result is that he pre sembes an alkaline powder and lets it go at that

What he needs is the simplest possible ambulant treatment one that he will prescribe and his patients wolloj lluz In searching for such a treatment Alvarez found that the essential factor is the giving of food every two hours With that alone most patients with uncomplicated ulcers get immediate and complete relief from their distress. In many the period of arrest is at least as long as it is usually after Suppy cures

Haberer H Peptic Ulcer of the Jejunum (Zur Frage des Ulcus pepticum jejuni) Arch f klin Chir 1926 ctl 395

The author discusses pentic ulcer of the jejunum on the basis of sixteen cases which he studied very thoroughly The development of peptic ulcer of the jejunum is not influenced to any great extent by the nutrition nor the operative technique. Even in the not rare cases in which the roentgen examination fails to show evidence of the condition the diagnosis

is easily made from the general clinical symptoms, especially tenderness to pressure in the region of the

new outlet of the stomach

Examination of the storach contents usually shows high hydrochloric acid value in relation to the total acidity. It is important to remember that even extensive resection of the antrum causing a marked decrease in the bydrochloric acid may be followed by peptic ulcer. Haberer assumes that in these rare cases there is misplaced pyloric mucosa in the duodenum and that when duodenal stains occurs this precipitates the second chemical phase in the stomach which may lead to peptic ulcer of the jeunum.

The location of the ulcer is usually in the region of the anastomosis near the attachment of the mesen tery. It is sometimes very difficult to find. The best guide to it are the glands in the mesentery of the loop used in the gastro enterostomy and the inflammatory thickening of the mesentery.

VORDERBRUEGGE (Z)

Adams J E The Surgery of the Jejunum Brit J Surg 19 6 xiv 343

Traumatic lesions of the jejunum include crush ing tearing and bursting. The most common cause of intestinal rupture is a direct flow over a small area of sufficient force to produce temporary approximation of the opposite walls of the gut. The extent of the lesion depends upon the state of distention

and fixation of the bowel

A forcible blow on the abdomen over a limited area is alone a sufficient justification for abdominal exploration. It must be borne in mind that marked acceleration of the pulse, recurrent vomiting diminution of hive dullness and the presence of abdominal rigidity are late signs of intestinal rupture. The prognosis of rupture of the jejunum is governed chiefly by the state of fullness of the gut and the time which elapsed between the injury and the operation.

In suturing marked narrowing of the bowel lumen must be avoided. When the rupture is extensive re section may be necessary. Up to two fifths of the length of the small intestine may be removed with

little disturbance of metaholism

Obstruction of the jounnum if unreleved soon terminates latally Probably the most common cause is adhesions Intussusception and volvulus are rare Many investigations have been made to explain the high mortality in obstruction of the small bowel. It is generally believed that the cause is a severe toximia due to the absorption of toxic muterial elaborated within the obstructed bowel. The source of these toxins is still a subject of controversy, some believing it to he the mucosal valil and others bacterial activity. The most toxic products are the proteoses A most important con tributory factor in toxic absorption is paresis of the seunum.

New growths are rare in the jejunum Primary carcinoma of the jejunum is a pathological curiosity Sarcoma occurs occasionally and may he the exciting factor in intussusception. Benign tumors are rare. The most common henign tumors are the fibroma, myoma, lipoma, and adenoma hut these constitute only one fourth of the total number of tumors of the small intestine.

The author discusses briefly cysts and congenital atresia of the jejunum, both of which are unusual

conditions

Primary ulcer of the jejunum with or without perforation is rare, but ulceration following gastro jejunostomy is not uncommon. Factors believed to contribute to the occurrence of jejunal ulceration after gastrojejunostomy are the use of non absorbable suture material and of clamps in the operation and trimming of the mucosa in the formation of the jejunal stoma.

The symptoms of jejunal ulcer are comparable to those of duodenal ulcer. Hunger pain is often a prominent feature. The only physical sign of much value is tenderness to the left and a short distance above the umbilicus. Various roentgenographic ahnormalities are mentioned as suggestive of ulcer.

a filling defect is rarely seen

Jennostomy is of value for several purposes. In some cases it may he indicated for feeding. Food introduced into the jennium will maintain the patient's nutrition and after a few days this method of feeding is well tolerated. The formation of a jenural fistula is of value also for jenural dramage which is an essential measure for the relief of intestinal toxema.

The author describes the technique of jejunostomy A winged catheter is best. After its emergence the tune should be hursed in the side of the intestine for a short distance and anchored to the rectus sheath and skin. If possible it should be delivered through a portion of the omentum. The operation may be performed under local amesthesia through the upper fibers of the left rectus muscle.

Jeunostomy may be successfully substituted for grastrostomy in carcinoma of the esophagus and iooperable cancer of the stomach. It may be employed also for bleeding gastric and duodent ulcers, particularly inoperable ulcers and may be combined with gastro enterostomy. In the cases of poorly nourished pattents with gastric ulcer this operation may be performed as a preliminary to gas

trectomy

In the second stage of intestinal obstruction which is characterized by distention of the howel, the obstruction must be relieved but in addition a temporary jejunostomy is advisable. In the third stage, in which the patient's condition does not warrant an abdominal exploration only relief of the distention by jejunostomy should he done at first, the removal of the cause of the obstruction should he delayed addams prefers to open the howel in the jejunum in such cases because the toxicity of the contents is believed to be highest at this level. Jejunostomy is recommended also for certain cases of paralytic fleus and peritorities.

Don's Huyen, SM D.

Haden R L and Orr T G Experimental High Jejunostomy In the Dog with Blood Chemical Studies J Laper Med 1926 xliv 795

Dogs with simple high drainage of the jejunum lived from two to five days This is a shorter average length of life than that following simple obstruction at the same location. The chemical changes in the blood are similar to those occurring in high intestinal obstruction but differ from those of pylone and duodenal obstruction in that the carbon diocide combining power does not show any constant change and the chlorides do not show such a marked

Heostomy 12 in above the execum did not produce the profound disturbance of high jejunostomy

Treatment with sodium ehloride solution definite ly prolonged the life of does after high segunostomy The cause of rapid death following high jejunostomy apparently differs from that of death following high intestinal obstruction Sodium chloride will not pro tect to a great an extent following high jejunostomy as in high intestinal obstruction

Whether the cause of death is dehydration toxemia, loss of chlorides or loss of other important elements is not known SAULEL LABY M D

Hays G L Preumatic Rupture of the Bowel Sure Ginec & Obst 1026 xlatt 401

In a review of the literature Hays found that pneumatic rupture of the howel is a very uncommon accident He was able to collect the reports of only thirty two cases The first case was reported by Stone in 1004 In 1011 Andrews reviewed seventeen cases applieding one of his own

Hays reports the case of a 30 year old man who worked in a mill It was the practice of the em ployees in this mill to use an air hose to dust their elothes when they finished work. The patient held the nozzle of the air hose too near the huttocks

forcing the air into the rectum He was seen by the author thirty minutes later in severe shock with a weak and rapid pulse and tenderness and marked muscular rigidity over the entire abdomen. The inguinal canals were more prominent than normal and the umbilical depression

was absent Operation was performed one bour and fifty min utes after the accident A rupture was found in the rectum distal to the end of the sigmoid The serosa was separated in two or three areas and the peri toneum markedly congested free air and fæcal material were found in the abdominal cavity. The perforation was carefully closed and the separated serosa repaired A tube extending above the point of rupture was left in the rectum and the sigmoid was sutured to the peritoneum through a McBurney incision so that it could be easily opened later if necessary

On the following day the sigmoid was opened at the site of the peritoneal suture on account of distention On the second day a excostomy was done as no relief was obtained from the opening of the sig

moid Aine days after the operation the patient became semi stuporous presumably as the result of the fluid loss occurring through the exco tomy open ing It was therefore deemed advisable to close the cæcal opening in such a way that it could be re opened easily if necessary. This was done by intro ducing a Barnes dilator and inflating it. The pa tient's condition almost immediately came back to normal Herniz developed in both incisions and were repaired at a later time. The excostomy open ing was also repaired.

The patient made a complete recovery and re

turned to work

The author reviews twenty two cases from the literature The mortality in these cases was 60 5 per cent The high death rate was no doubt due partly to the length of time which elap ed between the accident and the operative procedure. This interval ranged from one hour and fifty minutes (in the author s case) to four days The patients who re covered after operation were all op rated upon within six hours Two recovered without operation but it was impossible to state definitely that they had a perforation of the bowel

The treatment of these cases is entirely operative The sooner they come to the operating table the greater the chance for recovery A paracentesis of the abdomen to permit the escape of air before the operation is probably advisable as the patient's condition is usually improved immediately by the removal of pressure from the diaphragm

The patient's condition and the pathological changes found suggest the type of operation most applicable The operative procedures vary from sample closure of the ruptured bonel to resection of the intestine followed by end to end or lateral anastomosis

A colostomy above the point of the anastomosis to relieve pressure is essential

HAROLD VI CAMP M D

Upson W O The Technique for Roentgenological

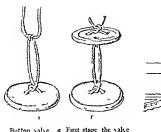
Study of the Colon Am J Roenigenol 1926 vil A reliable accurate and complete report on pathological conditions and abnormalities of the

colon depends largely upon the roentgen examina tion In order to obtain a thorough understanding of the condition such an examination must be made with great care and if possible should in clude observations made after the ingestion of an opaque meal and after the injection of an opaque

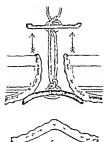
The author gives a detailed description of the technique used at the Battle Creek Sanitarium Battle Creek Michigan together with observations which serve to differentiate the normal from the pathological colon

The article contains numerous roentgenograms showing different types of conditions and how they may be demonstrated by rotation or manipulative

ADOLPH HARTUNG M D



Button valve a First stage the valve b Second stage button attached a Button valve in position sectional view



Canardine - The Extraperstoneal Closure of the Artificial Anns (Greig Smith's Method)

Perman E The Operative Treatment of Cancer of the Colon Acta chirurg Scand 1926 ltt -57

In the method of resection described the two intestinal loops after sufficient mohilization, are jointly grasped in one claims and the gut is divided at some distance from this point. The intestine is then sutured end to end. As the suturing is done with the exposure of a strip of intestinal nucous membrane from I to 2 cm wide this method is not as aseptic as the procedures in which the intestinal suturing is done with the lumen closed. However, it has great technical advantages and is associated with no greater danger of peritorius than other procedures. The latter was demonstrated by the absence of reaction in several of the cases operated upon during the last year, the temperature curves of which are shown

In fifty seven cases of carcinoma of the colon, including the sigmoid flexure, there were sixteen deaths after the operation but in only six of the fatal cases was the death due to peritomits. In twenty nine cases of acronoma of the execum the a cending colon or the descending colon there was no case of peritomits after the operation. In nine cases of lieoceccal resection for tuberculosis or chronic typhilits there was one death, and in nine cases of sigmoid megacolon without acute ileus there was no death after the resection.

Hecker J P Crunwald J E and Kuhlmann C J The Malformations and Displacements of the Large Intestine and Their Surgical Importance Am J Surg, 19 6 1 344

Malformations and displacements of the colon are very interesting not only embryologically but also chinically. They are not frequent. In most cases the condition is discovered at autopss, but in some, is in Hecker's case, it is revealed by roentgenographic examination. Most colonic ectopias are dispositions resulting from insufficiency of normal rotation of the primitive intestinal loop inverse rotation, or deficient fixation. Hecker classifies colonic dystopias embryologically into two groups those resulting from faulty rotation (absence of all rotation insufficiency of normal rotation, insufficiency of inverted rotation), and those resulting from insufficient fixation (ptosis of the splenic flexure) to the splenic flexure ptosis of the hopatic flexure)

The absence of rotation predisposes to dilatation of the colon and acute occlusion several angulations predispose to occlusion or volvulus. Absence of fixation of a flexure and excessive length render the diagnosis of appendictits difficult.

The author reports a case of sinistro colia
HERMAN H HUBER M D

Carwardine T The Extraperitoneal Closure of the Artificial Anus (Greig Smith's Method) Bril J Surg 1926 xiv 3 9

Carwardine calls attention to the method of closing the artificial anus devised by 5mith in 1895. The aim of the operation is to perform enterorrhaphy without opening the general peritoneal cavity.

The prehumary treatment consists in division of the spur and restoration of the natural channel hy mechanical means. This is accomplished most satis factionly by the application of Dupuytren's entero tome. The compression should be gradually in creased each day complete ohliteration of the spur should rake from five to seven days. Tying the patient's hands and attaching a large cork disk to the clamp are advocated to prevent accidental displacement.

The next step consists in the introduction of Banks tube which serves the double purpose of duluing the contracted efferent loop and pressing back the spur Later a hutton valve may be inserted

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This consists of a soft rubber disk applied to the inside of the stoma and held in place by attaching to it a rigid hutton as shown in the figure

The extraperatoneal closure is effected in four

stages as follows

I An oval incision is made down to the sub peritoneal tissue wide enough to include a portion of the contiguous skin

The bowel is separated from the overlying muscle and aponeurous over an area of 2 or more inches and then delivered Tree mobilization is essential to the success of the operation

3 After the superfluous tissue has been trimmed away the edges are sutured with inverting continu

ous cateut sutures

4 The wound is closed by several silkworm gut or silver wire sutures including all layers of the abdominal wall down to the peritoneum and a draininge tube is inserted at each angle of the wound

Following this technique natural defacation is the rule. There may be some frecal drainage but this soon ceases Occasionally the whole wound breaks down but after an interval of two or three

months the operation may be repeated successfully In the absence of serious complications the mortality is under 5 per cent. The method has the disadvantage of tediousness but this is amply com pensated for by the lower mortality. It is claimed to be equally effective for the small intestine

DOV K HUTCHENS M D

Feissly R A Contribution to the Radiological Diagnosis of Heocarcal Tuberculosis Brit J Radiol 1026 TXT 408

From the roentgenological point of view ilcocacal tuberculosis has two different aspects. In one group of cases ulceration of the mucous membrane seems to be the dominating condition and infiltration of the wall is of minor importance. The excum is therefore quite clear in the roentgenogram and the barium accumulates in the inferior ileum and the transverse colon In the other group of cases infiltration of the cæcum is the dominating condition and simple ulceration appears in the adjacent segments of the colon In some cases roentgenography shows a mal formation of the cacum due to rigidity of the organ

The author presents roentgenograms of cases illustrating the two types One of the cases is of special interest because of the unusual roentgen findings which were subsequently explained by the postmortem findings ADDLED HARTENG M D

Van Zwaluwenburg (. The Cause of Acute Appen dicitis the Hydromechanics in Acute Appen dicitis California C II est Wed 1026 TTS 612

The author's conception of the etiology of acute appendicitis is based on a hydromechanical theory The initial step is the formation of a closed pouch by the lodgment of a plug of facal material a faco lith or debris behind a construction or narrowing in the lumen of the appendix. It is generally known that feecal material passes quite freely into and out

of the normal appendix from the caput coli Acute appendicitis is a strangulation like abscess forma tion

The blood supply to the appendix through the arteries and arterioles has an approximate pressure of 125 mm Hg The veins and lymphatics remove the fluid from the tissues at a pressure of from o to 20 mm Hg The arteries continue to carry blood to the appendix after the lymphatics and veins of the appendix have been compressed and the afferent flow has been obstructed. Thus cedema and inflam matory hyperamia are brought about

Often the freehth acts as a ball valve plug per mitting a sudden gush of fluid from the cacum into the appendix where it lodges behind the plug or concretion The pathogenic bacteria present in the lumen of the appendix back of the obstruction cause inflammatory activity with resulting thrombosis of the vessels and ultimate gangrene unless the plug slips back into the excum and drainage i re established

Wilke of Edinburgh has produced appendicitis in rabbits and cats by first stripping fluid freal material from the execum into the appendix and then applying an obstructive lighture

JOHN W NUZUM M D

Fernstrom B A Contribution to the knowledge of Volvulus of the Sigmold Flexure Especially Its Chronie Form and an Account of the Technique Employed in Colonie Resection tela chieure Scand 1026 lu 213

The author reports twelve cases of volvulus of the sigmoid flexure the majority of which were chronic The difficulty of establishing the diagnosis of this condition and the importance of the roentgenological examination are emphasized The method of colonic resection in the cases reported is described

Clark J H Cancer of the Sigmold and Rectum in Children and Young Adults 1nn Surg 1926

Clark reports a case of carcinoma of the sigmoid in a boy 16 years of age. This is the thirteenth case on record of carcinoma of the sigmoid occurring at this age and brings the total number of recorded cases of cancer of the rectum and sigmoid occurring before the twentieth year of age to fifty two

JOSEPH L NARAT MID

Rosser C Clinical Variations in Negro Proctology The Venereal Lactor J im W iss 1926 leven

This discussion is a continuation of a study of proctological peculiarities in the negro which was reported in the Journal of the American Medical Association 1925 lxxxii 93 Attention i called to the varied manifestations appearing in the anorectal region as the result of venereal infections. Kosser believes that primary rectal lues is uncommon in the negro but that secondary and tertiary proctological lesions in the form of mucous patches flat condylo mata, vegetative condylomata, and tertiary rectal or anal ulceration occur much more frequently in the

negro than the Caucasian

In the author's dispensary practice, gonorrhead proctitis was usually seen late This condution is rare in the male but common in the female. As a rule, stricture is present or impending. A frequent accompaniment of gonorrheal rectitis is the most veneral wart or acuminate condyloma. Anal chancroid, which is also seen more frequently in the female than in the male, is described as an infection in hoth commisures or of the entire anus.

Venereal lessons of the rectum in the negro are notably indolent and always progressive. They tend to invade the entire rectum (but not the sigmoid) and to cause stricture formation. Constitutional treatment, without vigorous local treatment is in

effectual

Forssner H Rectal Angioma Perforating the Vagina Acta obst et gynec Scand 19 6 v 433

The patient whose cuse is reported was a marited woman so years of age whose menopause began one year ago. Her only complaint was a feeling of pressure in the lower part of the abdomen which she believed was due to a fibroid that had been found at examination a few years previously. Forsaier's examination disclosed a small pedicled fibroid which did not account for the symptoms and slight bulging of the anterior vaginal wall. The position of the uterus was normal. The patient was advised to wait.

Nine months later she returned with aggravation of the symptoms and a history of a growing lump in the anterior wall of the vagina. There had been no discharge or bleeding Examination revealed a rounded firm tumor about the size of a prune protuding from the vulva, and behind this an opening between the rectum and the vagina about 2 cm. in diameter. No faces or gas was passed through this

opening

At operation, the tumor a pedicled growth from the rectal wall was removed. Histological examination showed it to be a benign angioma

HARRY W FINK, M D

Lockhart Mummery J P The Prognosis in Rectal Cancer Lancet 19 6 ccs 1307

The prognoss as regards cure of a patient under 30 years of age suffering from cancer of the rectum is extremely poor. The author has no record of any patient treated for cancer of the rectum under the thirtieth year of age who has not died from prompt recurrence however drastic the operation. A patient with cancer of the rectum who is given only sympto matic treatment has a little less than two years to live. When the condition can be dealt with by perincal resection the mortality is not more than about 3 per cent. The chief cause of death used to be sepsis but this has been practically eliminated by careful technique. Folday the chief causes of death are postoperative infarction and heart failure. In cases of growths at the rectosympodal uncture.

which must be dealt with by abdominoperineal resection the operative mortality cannot be kept much below 25 per cent

In unnety five cases of rectal cancer operated upon hy the author, a five year cure was obtained in forty five Lockhart Mummery his not seen any cures from deep 'x ray or radium therapy

Colloidal copper delays the growth of the tumor and reduces the secondary ulceration It seems to act by causing fibrosis in the growth So far as the author is aware, it is associated with no danger

In the use of colloidal lead there is considerable danger from the rapid reaction of the tumor and from acute plumbism due to the lead in the circulation JOSEPH K NARAT M D

LIVER, GALL BLADDER, PANCREAS AND SPLEEN

Laird W R Brugh B F, and Wilkerson W V Liver Function Studies and Their Clinical Correlations Ann Surg 1926 lexus 703

The authors report upon tests of liver function in fifty two consecutive cases of gall bladder disease. The investigation included a carefully taken history, a thorough physical examination. Wassermann tests, studies of the blood chemistry and the phenolettrachlorphthalen test, the interess index test the quantitative determination of the uroblin in the urine and Widals bemodastic crisis test. The studies of liver function were made at the time of the patients a admission to the hospital and as often as seemed indicated during the period of preparation for operation, at intervals during the postoperative course, and as a final check on the end results at some time subsequent to the patient s discharge from the hospital.

As the result of this study the authors were able to predict with considerable accuracy the amount of pathological change in the liver that would be found at operation. In only two of the fifty two cases was the prediction not confirmed at operation. There was a marked parallelism between the seventy of the clinical symptoms and the degree of dy sfunction as shown by the lahoratory studies. In the authors experience, the phenoltetrachlorphthalein test, the icterus index and the uroblin test have checked each other quite accurately. The Widal test has been found less rehable.

HARRY W. Frix. M.D.

Davis D The Determination of the Icterus Index with Capillary Blood Am J M Sc 1926 clxxii, 848

The author presents a new and very simple clinical method for the determination of the interior index

Glass tubing of 2 mm uniform hore and 10 cm length is prepared and both ends are drawn out to capillary size The finger is punctured and a column of blood 2 cm long is drawn into the tube The blood is allowed to clot, and the clear end of the tube is sealed in the edge of a flame. The tube

is then placed in a padded centrifuge tube and the clot thrown down The layer of clear serum which forms above the clot is easily matched with stand

ards contained in tubes of the same bore

The method of preparing the standard solutions

is described As venipuncture is obvinted by this method it is convenient for frequent determinations of the icterus index and particularly suited to the study of the acterus andex in infants and children

STREET LAIRS M D

Graham E A New Developments in Our knowl edge of the Gall Bladder 1m J If Sc 1926 cirru 625

Graham believes that we are now perhaps just at the beginning of a rational conception of how in flammation of the gall bladder begins how it produces its symptoms and the nature of its effects He has presented evidence which indicates that in the majority of cases cholecystitis is produced by the direct extension of inflammation from the liver to the wall of the gall bladder This extension occurs through the abundant lymphatic anastomoses be tween the liver and the gall bladder From experi ments on the lymphatics of the gall bladder duodenum and pancress with the injection of die evidence seems to be accumulating that duodenal ulcer may induce cholecy stitis directly by hymphatic extension without the intervention of a hepatitis

From the standpoint of the diagnosis of gall bladder disease it seems that most tests of liver function have been rather disappointing The only laboratory and that offered hope was the roentgen ray but it was necessary to discover a substance that would render the gall bladder opaque. After considerable preliminary work the author and his co workers found the sodium salt of tetra iodophenol phtbalein best suited for this purpose. They have used the intravenous mode of administration and since the purer products have been employed have had no reactions from its use. They prefer the intravenous

to the oral method

Failure to obtain a shadow is unexcelled in diagnostic value. Soft calculi which are otherwise in visible are frequently seen in the cholecy stograms as negative shadows or filling defects. They occupa space in the gall bladder which would otherwise be filled by the opaque substance | Irregularities of contour denote adhesions diverticula etc. Variations from the normal in the density of the shadow and in the time of its appearance and disappearance are significant

The author has used the method in 900 cases in 653 of which the dye was given intravenously Of 100 cases in which the gall bladder was removed the diagnosis was found to be correct in 9, 2 per cent

I rom a physiological standpoint the author has been interested in the manner in which the gall bladder empties itself. From a series of very re markable experiments on animals he concludes that the chief factors in the emptying are purely passive

and the process is explained on the basis of simple mechanical principles as follows

The gill bladder is a distensible viscus which responds to increased pressure in the common duct by becoming distended When the ductal pressure is suddenly lowered by a sudden opening of the in testinal end of the duct there is an elastic recoil on the part of the wall of the gall bladder which results in the ejection of hile from the organ Moreover as the bile is streaming down the common duct past the orifice of the cystic duct there may be some siphonage action similar to that of the filter pump well known to chemists However the heistening values may interfere somewhat with the cut of bile in this way The intermittent sudden opening and sudden closing of the duodenal end of the common duct results therefore in a gradual washing out of the gall bladder HARRY W. FINE M.D.

Graham E A Functions and Diseases of the Gall
Bladder The Value of Cholecystography in Diagnosis Brit 3f J 1026 II 671 The Diagnosis and Treatment of

Cholecystitis Brit If J 1926 11 676

In discussing the pathogenesis of choleeystitis GRAHAM points out the importance of gall bladder infection occurring by way of the lymphatics secondary to liver infection. Such an infection usually begins in the periphery of the organ. A lymphatic spread of infection may be earried also

to the panereas

Graham describes the original experiments with tetra rodophenolphthalem and tetrabromphenol phthalein for the visualization of the gall bladder with the \ray Improvement in the manufacture of the jodine salt makes the latter preferable to the bromine salt. Its intravenous use is no longer ac companied by such undesirable reactions as those occurring at first. The 150meric salt phenolietra sodophthalein seems to pass through the liver more rapidly and promises to be the chemical of ultimate

A careful study of a group of 300 cases demon strated that there were more reactions following the oral administration of the iodine salt than following its intravenous use. There were fewer reactions following the use of phenoltetra iodophthalein than

in any other method

Studies in the mechanics of gall bladder con traction have disproved the contrary innervation theory of Meltzer Contractions of the gall bladder of they occur at all are exceedingly slight and of no consequence The gull bladder cannot be made to contract by any means and experiment has shown that in the case of the dog the gall bladder shadow will persist for several days if injections with tetra iodophenolphthalein are made at intervals

The gall blad ler may be emptied by abdominal pressure gradual washing out by fresh bile from the liver the clastic recoil from overdistention or the absorption of its contents The flow of bile follow ing the injection of pituitrin or magnesium sulphate seems to depend upon the induction of active duo denal peristalsis

HURST states that many cases of chronic chole cystitis remain undiagnosed because the symptoms do not correspond to the typical chinical impression of the disease. A carefully taken history and the finding of tenderness on pressure over the visualized gall bladder during a period of discomfort should make clear the presence of even a slight non surgical cholecy stitus.

The author does not agree with Craham that the gall bladder does not contract As disproving Graham's theory he cites the occurrence of bihary colic when a calculus becomes impacted in the mouth

of the cystic duct

In the diagnosis of cholocystitis the Lyon method and a study of gastric secretion are of value since

hypochlorhydria is often present

In the treatment, Hurst employs unotropin in large doses with such alkalies as sodium benzoate and potassium citrate three times a day. A small dose of magnesium sulphite is given each morning to promote biliary drainage. Vaccines made from organisms in the bile are prepared. Achlorhydria is treated by the administration of hydrochloric acid in suitable doses. William J Pickett M D.

Copher, G. H. and Kodama S. The Regulation of the Flow of Bile and Pancrette Juice Into the Duodenum Arch Int. Med. 19 6 xxxvm.

Tonus and peristals in the duodenum are of great importance in the regulation of the flow of bile into the duodenum This control is independent of factors other than pressure of the bile in the common duct A fall of pressure in the pancreatic duct accompanies a relaxation of tonus. The duodenal wall exerts a like control over the discharge of pan creatic juice from the pancreatic duct. A relaxation period between peristaltic movements during which time bile and pancreatic juice enter the duodenum, allows the chyme and secretions to be mixed together by thy thmic contractions A peristaltic movement following the relaxation period sweeps this bolus of chyme and secretions down the intestine The process is then repeated. Food drugs and chemicals that affect tonus and peristalsis are factors in the regula tion of the flow of bile and pancreatic juice into the duodenum

The injection of r or 2 c cm of oleic acid into the duodenal segment causes a marked increase in the duodenal novements and a fall in the common duct pressure. The relaxation of the tonus of the duoden immunes found to be greatest approximately five minutes after the introduction of the fatty acid Olic acid produces a greater fall of pressure in the common duct than magnesium sulphate. The intravenous injection of moderate doese of atropine sulphate permits a considerable reduction of pressure in the common duct. Epinephrin chloride also causes a relaxation of the intestine and a fall in the common duct pressure. The fall is most marked during the

rise of blood pressure from epinephtin. The intravenous injection of pituitary extract is followed by an initial inimediate relaxation of the duodenum and a marked fall in its common duct pressure corresponding to the rise of blood pressure.

Pilocarpine and physostigmine increase the tonus of the intestice and thereby increase the amount of pressure that the duct will withstand. The increase of tonus is usually so great that in spite of increased movements of the duodenum there is no discharge from the common duct.

It is evident that drugs that affect the tonus of the duodenal musculature affect the discharge of bile from the common duct MORRIS H KAHN M D

Wangensteen O H On the Significance of the Escape of Sterile Blle into the Peritoneal Cavity Ann Surg 19 6 lxxxiv 691

According to Wangensteen the leakage of sterile bile into the peritoneal cavity is not innocuous. When well functioning biliary fistule from which bile escapes into the peritoneal cavity are established the experimental animal soon dies of cholemia due to the totic action of the bile salts.

In man the escape of any considerable amount of sterile bile into the peritoneal cavity following sub-cutaneous rupture of the normal bile passages is always fatal unless the hile is removed. The cause of death is cholemia. The loss of bile from the intestinal tract is a contributing factor.

The quicker death of the dog after extravasation of bile as compared with the death of man under the same conditions is explained partially by the fact that dog bile is largely toric taurocholic acid whereas human bile contains relatively more of the less toxic glycocholic acid Harry W Fins, M D

Heyd C G Stricture of the Right Hepatic Duct Following Cholecystectomy Ann Surg 1926, lvruv ,69

The author reports the case of a 44 year old woman who complained of persistent jaundice, sharp colicky pain in the right upper quadrant of the abdomen, nausea vomiting, and tenderness in the area of a cholecystectomy incision which had been made a year previously. During a period of four mooths after the cholecystectomy the patient had bad bihary discharge and lost 50 lbs.

Heyd made a clinical diagnosis of chronic obstructive jundice due to extraductal pressure or possibly an injury to the external bihary ducts. The interest index was 03 and the finding of the quantitative van den Bergh test, 06 mgm per 100 c cm. The Fouchet test was positive. The carbon dioxide combining power was 419. The bleeding and clotting times were four minutes. The red cell count was 3 74000 ms.

When the abdomen was opened through a right rectus incisson the liver showed a moderate degree of fibrosis. The hepatic flexure and duodenum had become firmly united to the undersurface of the liver as the result of a proliferating chronic peritonitis The stomach was by pervascularized and adherent to the undersurface of the previous abdominal nicision. At the midpoint of the pylone ring there was a perforating ulicer with a defect 3 cm in diunteter. This had been occluded by apposition to the undersurface of the liver. At the normal site of the cysic duet there was a thick hard indurated mass trayered by the remnant of the right hepsite duet. Apparently the right hepsite duet was the site of an occlusive inflammation.

The pilorus and duodlenum were fered and brought. The pilorus and duodlenum were fered and brought to mot the wound the theory piloruphastic operation to the three piloruphastic operation and the common duct the three surface of the liver and the common duct udentitude by means of a hypodermic syringe and the aspiration of bile. After identification of the inferior portion of the common duct a clean hinted dissection was carried out exposing the common duct in 1810. With the surface of the systic duct the common duct passed into a hard ridge of inflammators tissue. Just below this trigge the common duct as so pened and attempts were made to probe from below upward. These were made to probe from below upward.

above the scar by the aspiration of bile A longitudinal incision was made through the scar tissue and carried down to the common duct. The henatic duct was dilated and a No to French rubber catheter inserted therein. The catheter was carried well down into the common duct. The gap between the right hepatic and the common duct was then autured in a transverse fashion, the incision connect ing the two ducts baving been made in a longitudinal direction. The result was the formation of an ample lumen between the hepatic duct and the main channel of the common duct. A cigarette drain was inscried in Morrison a space and two sheets of rubber tissue were placed between the fiver and the duodenum Recovery was uneventful except for a shight alkalosis which developed on the third day Since the operation the patient has gained 30 lbs HARRY W FINE M D

Judd E S and Parker B R The Mortality Following 1 324 Operations on the Bilian System and Punceas at the Mayo Clinic In 1925 Surg Clin V 1m 1920 VI 1 or

The authors report a decrease in the death rate from operations on the bilistry passages liver and pacerass from 4 is per cent in 1923 to 2 os per cent in 1923. They divide the operations into eight groups (1) operations for acute cholecystitis (2) operations for chronic cholecystitis (3) operations for chronic cholecystitis (3) operations for chronic those and concurrent conditions (4) operations on the gail bladder and ducts (3) operations for beingin lesions in the bilanty system (6) operations for carcinoma of the gail bladder (7) operations on the pancreas and (8) operation on the pancrease and (8) operati

Factors influencing the mortality were (1) the pre operative study and preparation of patients who were considered poor surgical risks especially saundiced patients who were given treatment to decrease the clotting time of the blood (2) close cooperation between the medical and surgical serv res (3) postponement of operation in the cases of obese persons until the obesity had been sufficiently reduced and (4) the minimal use of drains except when there was localized infection or the common duct was onened

In fifty four cases in which operation was performed for acute cholecy stitus there were three deaths. The patients who died were obese. Two died from severe myocardial degeneration and one from pul-

monary embolism on the tenth day

Of oos cases of chrome choler, situits with or with out stones choler steetomy was periorized in 878 with thirteen deaths. Choler, stostomy was perlormed in the neity cases with one death. In this group set deaths were due to cardiac disease one resulted from pneumonia four were due to pul monary embolism two to pneumonia, and one to massive collupse of the lungs.

There were 114 operations for chronic cholecystitis and concurrent conditions with one death. The prizent who died had had a cholecystostomy in 1916 and came to the Clinic with a history of severe mocardial damage and recurrent attacks of othe and a bifary figital. Death was due to pentionits sphedis and hypertrophs of the heart (516 gm).

One hundred forty two operations were performed on the ble ducts for stones with mine duths and thirty seven operations on the bile ducts for beingalesions in the biliary system with two deaths. Two of the patients died from pulmonary embolism three from peritonitis two from picturomia one from acrdiac discriss one from acute suppurative par creatitis one from internal hemorrhagic pachy meningitis and one from hepatic insufficiency Sixty eight were jaundiced at the time of operation. There were nine operations for carcinoma of the

gall bladder or ducts with four deaths

Twenty mue operations were performed on the patterns with out-off-the mue operations were performed on the patterns with out-off-the mue over custs of the must be must be some or case of the must be some of cysts, and to over custs of hemorrhage pancetains. The four deaths occurred in the malignant group on from generalized carcinomatous with hepatic in sufficiency one from gastro intestinal harmorrhage one from heatic insufficiency and from utrama

Thirty two operations were performed on the here with two detables Our death occurred tretke days after operation from gastro intestinal harmor thage in a case of primary carcinoma of the liver. The other occurred in a case of extreme altophic cirbo is in which a Talma Morison operation had been performed.

MISCELLANEOUS

Eusterman G B Unfamiliar Aspects of Hæma remesis and Melæna Med Clin N 1m 1926 × 485

In Fusterman's experience extragastric lesions in the ambulatory patient are as often responsible for gross hæmorrhage from the upper digestive tract, single or repeated, as are chronic ulers of the stom ach or duodenum and gastric cancer. The occurrence of hæmatemesis or mel'ena m'ay indicate an acute or chronic gastric or duodenal lesion but in the absence of characteristic symptoms and signs other causative frictors must be evoluted. These are hepatic cirrhosis, cholecystic disease with or without associated changes in the liver, foci of infection giving rise to acute focal hæmorrhagic gastritis or duodentis, disease associated with splenonegaly, such as splenic anæmia, Banti's disease, leukæmia, hæmolytic juundice, appendiceal disease with reflex gastric disturbances hæmophilia, purpura, chronic nephritis, and uræmia.

There are instances of symptomless solated hemorrhage the cause of which is never ascertained, the patient remaining in good health. In a small percentage of cases of chronic gastine or duodenal ulcer, hemorrhage single or repeated may be the only symptom. Only about 30 per cent of chronic being ilesions give rise to gross bleeding, and in the majority of the malignant lesions the bleeding is occult, gross hemorrhage being manifested in only 8 per cent, usually during the late stages of the disease. Unusually severe physical evertion or an alcoholic debauch may provoke hamorrhage in those predisposed to it even after years of freedom from gastire symptoms or hemorrhage.

The author describes four types of cases in which animina and hleeding from the upper digestive tract were outstanding features. In this group they were associated with cholecystic disease with regional hepatitis and appendictus, hepatic eirrhosis and splenomegal, with probably an associated duodenal ulcer, hamorrhage focal duodenitis, and gastric carcinoma developing soon after gastro enterostomy

for duodenal ulcer

Monson, R. B. P. An Investigation in the Wallaby of the Muscle Trauma Caused by the Common Incisions Used in Laparotomy Med J. instralia 1926 in 785

Monson has attempted by experimental work on the wallaby to place the various incisions for opening the abdomen on a definite pathological basis

The wallaby was employed because it usually maintains the upright position with a similar stress upon the abdominal muscles to that occurring in man

Two animals were used one to test the supraumblical incisions with the rectus retracted medally and laterally and the other to test the subumbulcal mid rectus and the gndiron incisions. The pentoneum in each case was closed with plain catgut, the muscle fascia, and skin were closed with chromicized catgut No. I Healing was uncomplicated. Two months later both animals were killed and sections were taken from the region under each incision and subjected to careful pathological examination.

Contrary to the usual teaching, the minimal amount of damage was done by the incision in which,

after opening of the sheath, the rectus was retracted medially. The next best incision as judged by the lack of damage to muscle fibers was the mid rectal in which the muscle was split

The gratinon incision proved to cause the greatest degeneration in all areas examined. This corresponds to the author's experience, he having seen more vental hernia in this incision than in any other save the mid line section.

The approach through the rectal sheath with lateral retraction of the rectus has been called the perfect anatomical incision and sponsored by such men as Moynihan and Sherren. However, this investigation showed that while there was little interference in the lateral half of the music, the change in the medial half was uniformly great, while the sections below the incision revealed degeneration of musice fibers equalled only by the corresponding

On the basis of his findings, Monson suggests that if this incision he used, the peritoneum be opened under the lateral half of the muscle to prevent subsequent ventral hernia Geological A Collett MD

sections in the gridiron incision

Pancoast, H. K. and Boles, R. S. Non Traumatic Left Diaphragmatic Hernia Chinical and Roentgenological Studies in Fifteen Cases 1rch Int. Med. 1926, xxviii 633

According to the various reports in the literature, diaphragmatic herina was discovered only seven times in 25,000 foentigenological examinations. In the authors' opinion, however, the condition is not rare but has been frequently overlooked. On the hasis of their origin Richards has classified these herine as follows.

r True hermiz (those with a hermal sac) (a) congenital (present at hirth), (h) acquired (through a natural opening usually the esophagus), (c) those not occurring through a natural opening, traumatic or non traumatic

False hernix (without a sac, go per cent of cases) (a) congenital, (b) acquired (all traumatic)

3 Eventration of the diaphragm (not true hernia)
Draphragmatic hernia is a protrusion of any of the
ahdominal viscera into the thoracic cavity through a
congenital or an acquired opening in the diaphragm
The opening may be a normal one which has become
enlarged, an artificial one formed by injury, or
present abnormally as the result of impaired devulop
ment. When the hernia has a sac it is a 'false hernia'
The sac consists of a layer of pleura or pertinaeum or
both. Both the true and the false type of hernia may
be congenital or acquired. By far the most common
type is the congulital false variety which constitutes
op oper cent of diaphragmatic herniae of the congenital type. The acquired false herniae are all

Lewald helieves that whenever an abdominal viscus is found in the thoracic cavity the condition should be regarded as congenital unless there is over whelming evidence that it has been acquired False

hernix are believed to develop as the result of a defect in the diaphragm due to imperfect closure of the pleuroperatoneal membrane during fetal life In cases of the true hernin the arrest in the develop ment of the diaphragm occurs at a later period when the muscle is still too weak to offer any resistance but after the formation of the pleura and peritoneum The latter are con equently involved in the resulting protrusion into the thorax and make up the sac which establishes the true type of herma

Levald calls attention to a concentral anomaly that he terms thoracic stomach This is a stomach that develops above the diaphragm and is never found below it. In such cases, the I ray shows that the esophagus does not pass through the diaphragm and no other organs of the abdomen are ever found

in the thorax

Any part of the diaphragm is susceptible to hernia tion especially any of the natural openings. A true herma through the aortic opening or the quadri lateral foramen which serves as the opening for the inferior vena cava has rever been seen. The great majority of hernix occur through openings on the left side of the diaphragm (the ratio to those occur ring on the right ide being 12 1) They may be anterior central or posterior. The assophageal variety is the most common Hermie occur more frequently on the left side of the disphragm because the right s de is protected by the liver below and the right lung above

Symptoms may be entirely absent Probably the most constant symptom is pain which is often of a

colicky nature localized just above the ensiform or in the epigastrium, and comes on gradually and especially when the patient is lying down and at The pain may be o severe as to suggest biliary colic and is apt to radiate through to the back and around to the shoulders Tenderness is noted in the right upper quadrant or less frequently in the epigastrium Regurgitation is frequent especially when the patient is in the supine position. Excessive flatulence and belching often occur two or three hours after meals. Hamatemesis may result from inflammation of the part of the stomach wall that is involved in the opening Dispings and palpitation occur in elderly persons and especially those with as octated myocardial disease, cardiac hypertrophy and aortitis

Physical signs may be absent Asymmetry of the

chest may be observed

The diagnosis is made by the roentgenologist Observations should always be made in the hon zontal position. It appears that these hernix are frequently overlooked because the fundus to not filled and the patient's position is not changed. The length of the esophagus may be determined by eso phago copy

The danger of strangulation even if not great is always present. This complication preatly increases the mortality of operation

The only treatment for disphragmatic hernia is surgical Most surgeons prefer Inparotomy dispite the fact that the dangers of thoracotomy have been reduced to the minimum Morris II Kain MD

GYNECOLOGY

UTERUS

Westermark H Exploration of an Interpositioned Uterus Acta obst et gynes Scand 19 6 v 435

Westermark had occasion to explore the interior of the uterus of a 59 year old woman who, five years previously, had had an interposition operation for prolapse and complained of a persistent discharge with occasional bleeding. There was no change in the appearance of the cervix Exploration was done because of the suspicion of cancer On account of the extreme anteflexion of the body of the uterus it was impossible to enter it through the cervical canal Therefore the fundus was approached through the anterior vaginal wall The uterus was laid open and the interior explored with the finger. In the mucous membrane of the fundus a small fibroid about the This was enucleated size of a bean was found Recovery followed HARRY W PINK, M D

Lynch, F. W. The Problem of Prolapse in Young Women with Cystocele and Rectocele Cals forms & West Med 1920 xxx 477

Prolapse and herma of the rectal and hladder walls necessitate extensive mutilating operations unless they are corrected in their early stages Cervical eversions should be cleared up with the cautery and displacements of the uterus corrected

By careful postnatal care many patients can be

saved from late extensive operations

While it is advisable to restrict the number of repair operations on women in the child hearing period, a good repair should withstand the strain of subsequent lahor. The author has even done a secondary repair immediately after lahor when the condition of the patient has heen good.

In prolapse the correction of the rectocele and cystocele should be followed by a well selected round ligament suspension operation. The various types are described.

I EDWARD BISHROY, M.D.

aro accerno

Borjeson, C. A Contribution on the Late Results of the Neugebauer LeFort Operation for Prolapse (Beitrag zur Kenntins der Spactergebnisse der Neugebauer LeFort schen, Prolapsoperation) Acta obst et gynec Scand, 1926, v. 235

Following a review of the development and results of operations for prolapse by the Neugehauer LeFort method, the author reports thirty one cases from the Women's Chine of Lund The operative tech inque is described 'Evequ' for one death from pul monary embolism and one recurrence, the results were good

The indications for operation are discussed and the method is compared with other operations for prolapse. The Neugehauer LeFort procedure is especially adapted to the treatment of elderly women

Cronberg N E On Local Anæsthesia for Prolapsus Operations Acta obst et gynec Scand, 1926 v 201

Cronberg describes the technique employed for many years at the Women's Clinic in Lund in the induction of regional anasthesia for operations for prolapse and gives a summary of the results in about 100 Cases

The method has distinct advantages as it is simple, gives a satisfactory anaesthesia for a sufficient length of time, does not lead to any complications, and can be used for patients of any age

Spalding A B Hæmostasis in Vaginal Hysterec tomy for Procidentia Am J Obst & Gynec, 1926 x11, 655

Of a series of 603 patients with various types of pelvic prolapse, ninety were treated by complete vaginal hysterectomy. Expenences with this oper ation have demonstrated the need for wide dissection of the pelvic fascia to close the hermial opening and decrease the danger of recurrence. As the nerves, and especially the pelvic vessels, a special technique is necessary to guard against postoperative higmorthing.

The particular point in the technique described by the author is the separate ligation and section of the

vesico uterine ligaments

Bovee secures harmostasis by making a T shaped incision in front of the cervix in the anterior vaginal wall and not separating bach far enough on either side to involve the uterovesical hisaments, but carrying the incision as near the pube region as necessary. He then applies a broad clamp to include the fallo pian tube, the ovarian ligament the entire broad ligament, and the uterosacral and uterovesical ligaments.

The two sides are then brought together by a sewing machine lock stitch so that every part of one side is approximated to the other side. Both lateral stumps are included in the hody of this suture material. The upper part of the suture line is then brought forward and sutured at the juncture of the urethra with the hladder. On either side in this broad ligament shelf that has been constructed two sutures are placed to secure it anteriorly.

In the discussion of this report, FRANK said that he does not do a vaginal hysterectomy for prolapse because preservation of the uterus facilitates the work of the surgeon in the event a recurrence

develops

In 180 cases of repair done in the period from 1925 to date there were fifty six cases of prolapse in which forty two ventral fixations and five Alexander operations were performed. The fact that a recur rence of the rectocele or the cystocele follows every procedure in a certain number of cases shows that no technique is as yet perfect

WARD stated that he puts a ligature at the base of the uteropubic fascial ligaments to control the bleeding. The Spalding operation forms a proper pelvic floor and takes care of the rectum by lifting

RANL reported that his mothod of dealing with prolapse consists in an anatomical repair in women in the child bearing period, a vaginal hysterectomy and anatomical repair in women in the carly meno pause and a Wathins interposition in cliently women or those not physically suited to extensive dissection E. L. Coxvell. VID

Miller C J Chronic Endocervicitis J Am M

Ass 1926 lexxvii 1693

Matthews II B The Electric Cautery Versus the

Matthews II B The Electric Cautery Versus the Sturmdorf Operation J Am M 1ss 1926

Culbertson C Erosion of the Cerviz Uterl J 1st W Ass 1926 [vxvu 1808

W Ass 1926 lexecu 1808
Gellhorn C Syphills of the Cervix J im W
iss 1926 lexecu 1812
Corbus B C and O Conor V J Diathermy in

the Treatment of Conorrhocal Endocervicitis

J. Am. M. Ass. 1026 [xxvvi 1816]

MILLER states that successful treatment of chronic endocervicitis must be hased on the structure function and pathological changes of the cervix Be cause of its complicated structure and frequent exposure to trauma and external infection the cervix B a favorable medium for the growth of bacteria. Its Jimphatic system furnishes an ideal route for the upward extension of local infection.

Specific infection laceration of the external os from childbirth and prolonged constipation are etiological factors in endocervicitis. The predisposing causes are animum lutherulous or any condition lowering the patients resistance. The bacterium most commonly associated with endocervicitis is the gonococcus. This is sometimes difficult to isolate because of its tendency to burrow deep into the cervicit issues of frequency are the streptococcus staphylococcus and colon bacility.

The cervical mucosa appears red swollen and everted. The so called erosons is not an ulceration but merely new cell formation. The symptoms are a leucorrhead discharge and menstrual detangements and frequently sternlity. As the leucorrhead discharge and gross cervical picture are pathognomonies the diagnoss is usually not difficult. Tuberculoss and syphilis of the cervix may be excluded by the history and the general physical and laboratory examinations. The cervix is a frequent focus of systemic infection.

MATTHEWS reviews the various types of cautery operations including those consisting of a few linear cervical incisions for superficial and moderately extensive infections crucial cervical incisions and

the coming out process for deep infections The Sturmdorf enucleation is described in detail

Custenzation is primarily a prophylactic measure most successful in sup rficial cervical infection and the destruction of infected cervical mucosa after the menopause or preceding supracervical hysterectomy when further menstruation is impossible. The Sturmdorf method is best suttled for cases with deeply disseminated antection of long standing with cystic changes occurring during menstrual life in which extensive cautenzation would interfere with subsequent labor.

CULBERION describes the various types of cervical erosions and their relation to beinging and malignant disease. Erosions are the direct results of excessive discharge although a leucorthean may be present without the formation of an erosion as is common in the virgin with a retroverted uterus and in the occasional case of profuse discharge in pregnancy Curtis has stated that when the cervical discharge to becomes alkaline or strongly acid an irritating factor is to be assumed. The culindrical epithelial cells proliferate in this medium resulting in the development of the simple erosion followed by the papillary formation. Thus the sequence is infection inflammation leucorthean papillary and follicular crossion and atypical cell formations.

GELLHORN holds that syphilis of the cervix occurs more frequently than is generally assumed and may be manifested in any of the three stages of the dis ease The primary lesion may rapidly heal or hecome a typical erosion. During this stage there are no symptoms and the condition may be readily over looked The bistological picture is that of any inflammatory process but the spirochæta pallida i found In the accordary stage syphilis manifests itself on the cervit in the form of macules papules and ulcers and the Wassermann reaction is strongly positive Secondary ulcers are characteristic pre senting a whitish yellow discoloration and red or pink areas Bleeding may occur in these ulccrations Tertiary lesions appear as gummata or gummatous ulcers giving rise to bleeding and a discharge which make it difficult to differentiate the lesion from carcinoma Microscopic examinations are some times useless if the lesion is in a necrotic stage. In such cases anti syphilis treatment should b given for differention

The cervical secretions contain spirochartes in the presence of a local and budden lesion. Dystocia during delivery is often caused by syphilitic lesions of the cervix Syphilitic lesions of the cervix predispose to cancer. Erosion soft chancer tuberculous ulcer gonorrhaea and carcinoma must be differ

entrated

Coreus and O Covor state that successful dathermy for genorrhead endocery citis depend on destruction of the deep organisms without injury to the endocervical canal Local applications of bacteriseds and causite protein congulants are use fess while douches tampons and vaccines are only adjuncts in the treatment Dathermy has the effect

of regulated, deep, localized heat on metabolism and the specific action of heat on the gonococcus

Endocervical diathermy is contra indicated in pregnancy and soute stages of infection. Successful results depend upon the use of a high frequency machine and a proper technique and time of application of the heat radiation. The authors describe in detail their method of conveying the radiation to the parts invaded. Mignis P. Urnis M.D.

Polak J O How Pathology of Fibroid Tumors of the Uterus Will Determine the Selection of Radium or Operation in Their Treatment Am J Obst & Gynce 1926 xii 781

Many fibroids need no treatment as they cause no symptoms and do not grow for long periods of time, but all women with fibroid tumors should be under observation reporting for examination at definite intervals. Fibroids demand treatment for (1) the control of hemorrhage (2) the relief of pressure and (3) rapid or progressive growth torsion, or degenerative changes. Bleeding may always be controlled by rest packing and \(^1\) xay or radium irradiation. Drugs have little effect. The curette, aside from its diagnostic value has no place in the treatment of hemorrhage caused hy a fibroid. Radium may be used for the control of hemorrhage in tumors within the confines of the uterus if the tumor is not larger than a three months pregnancy and is without adhexal growth or parameterial or peritoncal lessons.

Before any woman is subjected to \(^1\) ray or radium therapy, she should be examined under anæsthesia to determine the exact relation and location of the tumor mass or masses, and a diagnostic curettage should be made to exclude malignancy. All scrapings

should he suhmitted to a pathologist

The following types of tumors require operation (r) tumors larger than a three months pregnancy (a) tumors with a rapid growth suggesting progres sive changes (3) tumors producing pressure symptoms, (4) tumors associated with pethe pain (5) pedunculated tumors in which radium only increases the necrosis (6) tumors with pathological changes in the adness, (7) tumors with associated secondary anamus (cachectic appearance) in which the uterine hemorrhage has not heen sufficient to account for the degree of anamus (8) tumors in young women, (6) multiple submucous tumors distorting the uterine cavity (radium in these cases is likely to produce pyometra) (10) tumors which cannot he definitely differentiated (11) tumors in women who fear radium

In such cases myomectomy or hysterectomy should be done E L Cornell M D

Masson J C Myomectomy Hysterectomy and Radiotherapy in Fibromyoma of the Uterus J Am M 1ss 1926 lxxxvu 1530

In the treatment of uterine fibromyomata the size of the tumors, the symptoms and the patient signeral condition and age must be taken into consideration. During the child bearing period the

ideal operation is my omectomy. There is no contra indication to opening the lumen of the uterus. If the patient is more than 40 years of age, total abdominal hysterectomy or radium irradiation is often advisable the choice of procedure depending upon the size and situation of the tumor or tumors, the symptoms, the presence of adnexal disease or other indications for opening the ahdomen, and the surgical risk. Total or suthotal abdominal hysterectomy is indicated when there are complications and when the tumors are large. Occasionally vaginal myomectomy or vaginal hysterectomy is advisable

Essen Moller E A Short Account of the Prognosis and Treatment of the Vesicular Mole Acta obst et gynec Scand 1926 v 412

Of fifty vesicular moles seen in one clinic eight (16 per cent) were chorionepitheliomata or destructive moles. Twenty two (44 per cent) of the women had reached the age of 40 years and eighteen (36 per cent) had reached the age of 45 years. Five of the eight women with malignant vesicular moles were over 45 years of the companion of the second processing the second process of the second proce

The author suggests amputation of the uterus in women over 45 years of age to prevent malignant

degeneration in vesicular moles

ROLIND S Caon M D

Cordus R The Morphology of Cervical Carcino mats of the Uterus as a Brass for the Judgment of the Sensibility to Rays Brit J Radiol 19 6 xxx 477

Cancer cells differ in their reaction to the N rays. The hasal cell epithelioma is the most sensitive, while carenoma of the intestinal tract reacts poorly. Forty cases of cancer studied by the authors showed quite conclusively that the prognosis offered by irradiation is more favorable in the more differentiated forms of carenoma than in the less differentiated forms.

PALL W SWEET WID.

Farrar L k P The Reaction of the Tissues to Radium in the Treatment of Cancer of the Cervix and the Importance of Lacerations in Producing Cancer in This Location Surg Grace Cobst 19 6 thm 719

In the Woman's Hospital of New York all ward patients treated for carcinoma of the cerux of the uterus are urged to return once a month for five years for observation. Feret the medical artist made a senies of water color paintings to show the various stages of reaction following radium treatment of the cerus. Five stages are recognized

The stage of hyperæmia shows a cervix intensely red. This stage is reached usually about one week

after the irradiation

The stage of slough is characterized by a green foul slough resulting from disintegrating carcinoma. This stage is usually present one month after treatment

The stage of healing is ordinarily in evidence two months after the treatment The cervix has a clear, smooth dusly red surface

The stage of contraction is reached from three to four months after the irradiation and shows connec tive tissue contraction and distortion of the cervix The stage of marked contraction is found some time later when the stage of quiescence and final con

unrecognizable At this time stock is taken of the results of the radium treatment of the lesion The author urges the eradication of cervical de fects due to trauma or infection. Less than c per cent of carcinomata of the cervix occur in nulliparous women The Emmet trachelorrhaphy is urged for

traction has been reached

the repair of cervical lacerations A JAMES LARKIN M D

The cervix is often

Bonney V The Outcome of 214 Radical Abdominal Operations for Carcinoma of the Cervix Per formed Five or More Years Ago Proc Roy Soc Med Lond 1026 VX 120

The author performed Wertbeim's operation for carcinoma of the cervix in 14 of 340 unselected cases In nearly every instance he removed the glands and cellular tissue occupying the obturator fossæ as well as the glands lying along the iliac veins and all or practically all of the vaginal canal

The only bars to the accomplishment of the opera tion that be has recognized are extensive involve ment of the bladder or intestine or involvement of the ureters causing bilateral hydro ureter

Thirty four of the 214 patients died from the operation eighty two died from recurrence five died from other disease eight were lost sight of and eighty five were free from recurrence after five years JOSEPH & NARAT NI D

ADNEXAL AND PERIUTERINE CONDITIONS

Werner P Further Observations on Roentgen Children (Weitere Beobachtungen an Roentgen kindern) Arch f Gynaek 1926 exxit 157

This is a report concerning twenty two children born of women who had undergone graduation of the ovaries before becoming pregnant. The distinct under development of these children the fact that a large percentage of them died in the first years of life their marked susceptibility to disease and the relatively large number of malformations they pre sented demonstrate that irradiation of the ovaries may be very dangerous for children born subsequent ly and that the irradiation of women in the child bearing age must be done with the greatest con servatism. The already generally well known possi bility of injury to the fetus in irradiation during pregnancy is shown by the report of a case of mongolism with microcephalus WERNER (G)

Von Mikulicz Radecki F Experimental Investi gations on Tubal Movements (Experimentelle Untersuchungen ueber Tubenbewegungen) Arch f Gyna k 1926 cxxviii 318

In the investigation of the migration of the ovum the cilia theory has given place to the theory of

tubal peristalsis. The theory of tubal peristalsis dates back to 1800 when such muscle contractions were observed in the human being and in animals by several investigators Studies of the contractions of the tubes of animals have been made by Kehrer and American investigators on living specimens The author has studied both the nature of the contractions and the fluctuations which occur during pregnancy and pathological conditions. As he was unable to obtain any findings of value from roent genographic studies of tubal motion in rabbits he studied living human tubes by Kehrer's methods

Longitudinal muscle At the beginning of the study the normal human tube contracted in a rhythm of 10-45 seconds independent of the menstrual cycle the stage of gestation or puherty, but in the further course of the study there was a change in the type and thythm of the contractions in the different menstrual periods and of course individual varia tions Semile tubes and those of women with intra uterine pregnancy showed regularity of contraction and thythm but soon became fatigued Inflamed tubes and those with a tubal pregnancy showed a quite different behavior of the spontaneous move ments The behavior was different also in tubes with extension of inflammation to the musculature

Circular muscle The most distinct movement was noted in the ampullar portion of the tube be cause of its relatively large lumen. The rate in all cases averaged ro-30 seconds Pathologically changed tubes showed only very slight or no con tractions The most marked contractions occurred in the tubes of menstruating women and those with an undisturbed tubal pregnancy

It is possible that the longitudinal and circular musculature contract spontaneously but observa tion of peristalsis is impossible on account of the

serosal covering

The author s investigations on the tubes of rabbits in situ consisted in visual observations controlled by records of Garten's photolymograph. In all of seventeen instances in which the tubes were exposed in studies made on twelve rabbits under urethane aniesthesia impre or less intense contractions were observed The contractions always began at defi nate points The rhythm of the contractions aver aged 5-30 seconds The rhythm was slower during pregnancy The direction of the contractions could not be determined readily. About three or four tubal contractions were noted to one uterine con traction It appeared that a tubal contraction al ways preceded a utenne contraction an observation which may indicate that the tubal contraction is carried over into the uterus. However, the uterus has an automatism of its own

With regard to the importance of the tuhal con tractions the author agrees with Fraenkel that the contractions of the circular muscles form as it were fixed points for the longitudinal muscles to grasp and thereby move the tubal contents. If as has not yet been established the spontaneous con tractions in the human tube correspond to the move

ments of the rabbit's tube, it is evident that the buman tube has at all times the ability to transport the ovum toward the uterus without any stimulus from the ovum

CORDUA (G)

Randall, L. M. Some Aspects of Tubal Inflation Med Clin N 1m 19 6 x 689

Tubal inflation is a useful diagnostic measure. Its therapeutic value is slight. Since endometrium ray be transplanted to the peritoneal cavity during the test, the procedure is best carried out midway between menstrual periods.

The rate of gas flow must be slow enough to reduce spasm of the uterine muscle to the minimum This spasm has a direct bearing on the result of the inflation. It can be obviated by very gradually in creasing the intra uterine pressure and by preceding

the test by the use of belladonna

Roentgenograms following inflation give little additional information. In Randall's expenence, 200 c cm of earbon doxide injected through patent tubes into the peritoneal cavity always produces the characteristic shoulder pain. Roentgenograms made following the injection of lipiodol into the cavity of the uterus and tubes are a valuable and in the diag nosis of sterility in women.

Unterberger F Normal Delivery After Implantation of the Tubes (Normaler Partus nach Tubenimplantation) Monaisschr f Geburish u Gynach 1926 kxm 1

The author describes the technique of tube implantation which he has performed in four cases Primary healing occurred in all. One of the author's patients a young woman 25 pars old who had been sterile throughout the eleven years since her mar riage, became pregnant soon after the operation Operation revealed a bilateral salpingius isthmica nodosa but the osta of the tubes were open. The right tube was implanted. The course of the pregnancy was normal. Toward the end of labor forceps were used because the fetal heart tones were becoming weaker. The child was in excellent condition and weighed 7½ lbs. The purepretum was normal.

This case proves that the small scar at the fundus is well able to withstand the increased intra uterine pressure of the gravid uterus and in no way in

fluences the labor contractions

The hydrosalping is less suitable for implantation because its relaxed wall can be easily compressed

and may become adherent

The chief indications for the operation are affections in the isthmic portion of the tubes. When no portions of the fallopian tubes are suitable for implantation, the implantation of ovarian tissue within the uterine cavity may be considered.

The author reports also another case of tubal im plantation Von Weinzierl (G)

EXTERNAL GENITALIA

McGlinn J A The Treatment of Granuloma Inguinale of the Vulva with Tartar Emetic Am J Obst & Gyncc 1926 xii 665

Abel of the Johns Hopkins University has prepared two antimonals, sodium antimony thiogly collate and a new synthetic compound, the triamide of thiogly collic acid. Inguinal granuloma is endemic in northern latitudes and should be suspected in any vulvar lesion which resists ordinary treatment. Antimony is a specific for this disease. As the lesions have a tendency to recur, ten intravenous injections should be given after complete healing has occurred.

MISCELLANEOUS

Lynch F W The Frequency and Meaning of Backache in Gynecology Am J Obst & Gynec, 1926 vn 719

Sacral or sacrolumbar backache was a complaint in 49 per cent of 1,041 women who came to gyneco

logical operation

It was present in 15 per cent of the 28 cases of obroids, 40 per cent of the 101 cases of abroids, 40 per cent of the 434 cases of pelvic in flammatory disease that came to abdominal oper ation, 67 per cent of the 290 cases of retrodisplace ment (in most of these the 290 cases of retrodisplace ment (in most of these the retrodisplacement was combined with descent, cervical injuries, and vaginal relaxation), 71 per cent of the 125 cases of marked vaginal relaxation in women under 40 years of age, and 22 per cent of the sixty three cases of complete prolapse

The backache may be ascribed to the gynecological condition because it remained cured for periods ranging from one to eight years in 76 5 per cent of the 510 cases in which it was a pre operative

symptom

Of the cases in which backache was present be fore the operation, it was cured in 50 per cent of those of ovarian tumor, 72 per cent of those of chronic pelvic inflammation 79 per cent of those of relaxed vaginal outlet in women under 40 years of age, 80 per cent of those of fibroids, 81 per cent of those of retroversion and flexion, and 37 per cent of those of complete procidentia.

Backache in gynecological conditions is due chief by to pelvic congestion. Comparatively slight de fects in posture may favor its development. In from 16 5 per cent to 23 5 per cent of the total number of cases the backache was due to an orthopedic condition.

Kino stated that the Smith pessary is one of the most valuable single contributions ever made to gynecology. A backache which is not reheved by a properly adjusted pessary will seldom be helped by surgery.

E L CORNEL, MD

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

Ask Upmark M E Is the Corpus Luteum Neces sary for the Physiological Accomplishment of Pregnancy in the Human Being? Acts obst et gynec Scand 1026 \ 211

On the basis of cases reported in the literature the author discusses Fraenkel's hypothesis concern ing the importance of the corpus luteum for the maintenance of pregnancy during the first two months He arrives at the conclusion that even if this hypothesis is proved correct in the case of rabbits there is no clear evidence that it applies to human heings On the contrary there are numerous cases which indicate that it does not apply to women

Gammeltoft S A and Nyeborg O The Im portance of Antenatal Care teta obst et ennee Scand 1926 \ 363 390

GAMMELTOFT discusses maternal mortality in relation to antenatal care In the Lying In Depart ment A of the Rigshospital in Copenhagen Den mark during the period from 1017 to 1025 there were 14 633 confinements One hundred and twenty one of the women died The cruses of death are tahu lated Twenty nine of the deaths were due to inter current diseases Gammeltoft h heves that in numerous cases an examination and treatment during pregnancy would have improved the prog-nosis. From a review of the figures only he concludes that in thirty nine of the 121 fatal cases prophylactic treatment would probably have prevented the fatality

NYEBORG reports upon results obtained in the ante natal clinic and the department for the treatment of diseases associated with pregnance. He first gives a brief review of the history of antenatal care in Denmark from 1840 when women who desired to be delivered in a maternity hospital entered the hospital for examination six weeks before delivery up to the establishment of a department for the treatment of diseases associated with pregnancy in 1910 an antenatal clinic in 1921 and the Mother's Help Society in 1924 The last mentioned is a private society subsidized by the State and formed by the union of two societies with similar objects which had been in exi tence for twenty years

The most important pathological conditions in pregnant women examined during the period from 1022 to 1024 are reviewed These included anomalies of the pelvis nephritis hyperemesis eardiopathies pulmonary tuberculosis and syphili Only a few of the most interesting cases are reported in detail Pathological conditions were found in 267 of 1 141 women examined in the department for the treat ment of diseases associated with pregnancy and in

419 of 1 850 women examined in the antenatal clinic The results as regards both the mother and the child are so good that they cannot be considered a statistical coincidence but must be a consequence of the antenatal care

Williams J W Note on Placentation in Quadru plet and Triplet Pregnancy Lull Johns Hopkins Hosp Batt 1020 XXXIX 271

Quadruplets are born approximately once in a half million labors. The author describes the placen tal relations in such a case and in six cases of triplet pregnancy

Single ovum twins are enclosed within a single chorion and each twin is surrounded by an individual ammon Twenty four per cent of 280 cases of twin pregnancy studied by the author were of the single orum type

In the case of quadruplets reported by Williams the third child was extruded attached to its own placenta The placenta was of normal consistency The first two children and the last child were at tached to one large fused placenta. Each partition wall consisted of four layers two chorions and two amnions giving evidence that the quadruplets had originated from four separate ova

Implet pregnancy may arise from the fertilization of three or two ova or one ovum In all but the last event the placental relations may present several variations. The latter are described in idetail MACNUS P URNES M D

An Unusual Twin Abortion

Lundanist R Superfetation? Icia obst et ginec Scand 1927

The author records a case of abortion in a woman 40 years of age, who had had seven children and one miscarriage Her youngest child was 8 months old Lundquist saw her on I'eb 28 1925 Her last menstruction had occurred November 1924 and she became pregnant at that time The fetus which had been born measured 17 cm It showed no signs of maceration. It had evidently died immediately before or at the time of delivery Among the clots that were recovered on expulsion of the placenta there was a small thin walled sac about the ize of a plum which contained a fetus 9 cm long This fetus appeared quite normal It had rudimentary arms and legs and its eyes were represented by two black Microscopically it showed quite evident signs of hemolysis The age of the large fetus was estimated at 4 months and that of the small one at about I month The small one had been dead for some time

The author reports this as a case of superfe HARRY W FINE M D tation

Belding D L The Effect of Treatment of the Syphilitic Pregnant Woman upon the Incidence of Congenital Syphilis Am J Obst & Gynce, 1226, vii 839

The author presents a statistical survey of 190 women with positive Wassermann reactions, of whom forty had received treatment during gestation

These somewhat meager statistics indicate that a large proportion of the children born of untreated syphilitic women never develop syphilis. The trans mission of congenital syphilis depends upon the type and duration of the disease in the untreated mother, her resistance, and, to a limited extent, the element of chance. At least some of the excellent results attributed to anti syphilis treatment in the literature would have been obtained without treatment.

In recent active syphils treatment is necessary to prevent infection of the child. In old or obscure syphils there is always the possibility of transmission and therefore it is essential that treatment he given every pregnant woman with a diagnosis of syphils. The treatment of the pregnant woman should be hegun early and continued up to the time of delivery

In a survey of the children of untreated women who had a positive Wassermann reaction during pregnancy it was found that the majority of these children showed no evidence of early congenital syphilis. Of the conceptions of 150 serum positive women who received no treatment during pregnancy of 3 per cent resulted in a living apparently non syphilitic child. Of those of eighty seven women who showed evidence of clinical sphilis, 42 per cent and of those of airty three women who had only a serum positive sphilis 874 per cent resulted in a living apparently non syphilitic child. Women who showed no clinical evidence of syphilis and who had had the disease over five years seldom gave hirth to a syphilitic child.

A group of forty women who resembled most closely the eighty seven untreated women with clinical syphilis in respect to the previous effect of the disease received anti syphilis treatment during the gestation period. Living apparently non syphilitic children resulted from 67 5 per cent of the conceptions. The most striking evidence of the effect of treatment was the lowering of the fetal death rate.

In the discussion of this report KOLMER stated that the thorough and proper treatment of the syphilitic woman during pregnancy has proved to be an efficient, sensible and practical method for preventing prenatal infection of the unborn particularly if the woman has been infected within five years of ber pregnancy. If her syphilitic infection is of longer duration, she may give birth to a non-syphilitic child provided nothing has occurred during her pregnancy to stir up the latent infection.

It is now quite well established that pregnancy results in an increase of immunity to syphilis hut the disease may be nevertheless present. Kolmer helieves that the mother of a syphilitic child should always receive appropriate treatment for the disease LLAUDER said that the transmission of syphilis is a matter of vital importance to the obstetrician and it is incumbent upon him to become a syphilologist in order to he familiar with the clinical manifestations of syphilis and the ever changing therapy of the disease

In recently infected women, conception should be delayed until treatment renders the Wassermann reaction negative

In many cases his muth is better suited for the use of the obstetrician than the arsenicals

E L CORNELL M D

Beil J W Postmortem Findings in Ten Cases of Toxemia of Pregnancy Arr J Obst & Gynec 1926 vii 792

This article is based on ten cases of toxemia in which the condition developed during the last four months of pregnincy. Five of the women had convulsions. The majority had been ill for from a few days to a few months. Jaundice was noted at only one autopsy.

The diaphragm was found on the right side he tween the third rih and the fourth interspace and on the left side hetween the fourth rih and the sixth interspace. In one case its lower surface was covered by a subperitoneal hamorrhage. In three cases there were small amounts of fluid in the abdomen In half of the cases from 50 to 700 c om of fluid was found in one pleural cavity. In two cases the fluid was clear, in two others it was bloody, and in one case it was purulent.

In half of the group with evudate lung lesions ranging from passive congestion to solid nodules could he demonstrated. Microscopic evamination of these lungs revealed codema, chronic passive congestion, hronchitis early hronchopneumonia hæmor rhage, and abscess

The average weight of seven hearts was 325 gm. The individual weights ranged from 260 to 500 gm. The largest heart was that of a woman who weighed about 320 lbs. In every case the pencardium contained from 3 to 500 cm of fluid. In two cases it was hlood stained and in one case purulent. The myo cardium was normal in consistency in most cases but soft and flathy in a few. Nothing of importance was noted in the coronary arteries. The aorta was recorded as showing nothing more than a few patches of sclerosis.

The weight of the spleen in seven cases ranged from go to 200 gm. The average weight was 170 gm. In say cases the capsule was smooth or tense. Cor puscles were visible in eight cases. The color varied from pinkish gray to dryk brown.

The appendix was present in every case and in no instance showed active acute inflammation. The digestive tract showed no gross lesions. In two instances the stomach was found full of hile stained fluid. No lesion was noted in the pancreas. There was no gross evidence of disease in the adrenals.

The kidneys of eight patients ranged in weight from 120 to 220 gm The capsule usually stripped

easily leaving a smooth surface. The cortex was

olten swollen and pale

The liver weight ranged from 1 205 to 2 120 gm. with an average for eight cases of 1,751 gm In these cases there was little agreement in the liver lesions The latter included passive congestion localized fatty infiltration acute yellow atrophy, infarction hæmorrhagic necrosis and cellular infiltration (chiefly of portal spaces) These findings indicate that the toxemia of pregnancy is not dependent upon any one particular hepatic lesion

E L CORVELL M D

Can Eclampsia Be Prevented by Persson E Systematic Treatment of Eclampsism? (Lann eine systematisch durchgefuehrte Behandlung des Iklampsismus der Lklampsie vorbeugen?) Acta obst et gynec Scand 1926 v 230

In agreement with the present tendency to regard eclampsia as a late symptom of a general toxxmia of pregnancy an eclampsism the attempt has been made in Lund since 1906 to diagnose and comhat

the latter in its earliest stages

One of the first symptoms is alhuminuria treatment is dietetic. In more advanced cases resort is had to venesection and possibly abortion The results of these measures have been encouraging as the number of cases of eclampsia now seems to be in inverse ratio to the number of cases of eclampoism treated

Stander H J Studies in Anasthesia Anoramia Anhydræmia and Eclampsia with Certain Deductions Concerning the Treatment of Eclampsla Am J Obst & Gynec 1926 zn 633

In studies on anasthesia it was found that ether chloroform nitrous oxide and ethylene produce changes in the blood constituents very similar to those seen in eclampsia. They cause also pronounced liver lesions and less marked changes in the kidness Their use in the treatment of eclampsia seems open to objection

Blood studies on anoxemia and eclampsia suggest that in the latter condition deficient exidation may play a part Peptone albumose and histamine produce a blood picture suggesting anhydræmia Both chemical and pathological evidence indicates that any one of them may be an etiological factor in the causation of eclampsia

Peptone albumose and histamine produce de generative liver lesions similar to those associated with vomiting of pregnancy but as yet the author hesitates to assume that they play a role in the

causation of such vomiting

The fact that morphine raises the carbon dioxide combining power of the blood and does not damage the liver affords justification for the continuance of its use in the treatment of eclampsia. The chemical and pathological findings with magnesium sulphate speak against its use in eclampsia but further work is necessary before a definite conclusion can be reached

Glacose employed alone or with insulin seems to be of value in certain cases of vomiting of pregnancy and eclampsia but not in all

The author has found that in mild cases of eclampsia the use of a modified Stroganoff tech nique has led to a marked reduction in the mortality The treatment of severe cases is not yet satisfactory It is a question whether prompt delivery under spenal anæsthesia may not give better results than have been obtained heretofore

E L CORNELL M D

Hewitt J The Clinical Condition of the Uterine Wall in Concealed Accidental Hæmorrhade Edinburgh If J 1926 xxun Edinburgh Obst Soc

Cameron S J The Treatment of Concealed Accidental Hæmorrhage Edinburgh M J 1926 xxxiii Edinburgh Obst Soc 173

HEWSTT states that the retention of blood in concealed hamorrhage has been attributed to numerous factors such as non dilatation of the cervix adhesion of the membranes around the os and pressure of the presenting part on the lower uterine segment, but

none of these theories is sati factory In Hewitt's opinion the cause is a maintained and painful telanic contraction of the uterus Difficulty in palpating the fetal paris through the abdomen is due not to rigidity of the abdominal wall or the intervention of blood clots and placenta between the examining fingers and the fetus but to the tonic condition of the uterus The membranes also are extremely tense which is not the case in uterme

mertia The constant pain in concealed hæmorrhage is due to the sustained spasm of the uterus rather than to any damage to the uterine tissue. During this tetanic phase labor cannot advance because of the unremitting cramp-like uterine contractions

CAMERON believes that the importance of shock as a cause of death during labor in cases of concealed hæmorrhage has been greatly underestimated. He regards it as questionable whether death is ever due to the severity of the intra utenne hamorrhage alone

The author rejects rupture of the membranes the application of an abdominal binder and packing of the vagina as means of arresting the flow of blood He shows that no amount of pressure from below (principle of the Dublin pack) can control the hamorrhage from the free anastomosis of the uterine and ovarian arteries

The most successful method of overcoming the dangers of shock is the administration of morphine in sufficient quantity to maintain the patient in a state of somnolence Upon her recovery from the shock o 5 c cm pituitrin should be given every half hour until labor pains result

If rupture of the uterus is suspected casarean section followed by hysterectomy if necessary,

should be done immediately MAGNUS P URNES M D Siddail R S, and Hartman, F W Infarcts of the Piacenta A Study of 700 Consecutive Pla centæ Am J Obst & Gynes, 1926 zu 683

So called infarcts of the placenta are of four hands, but are all composed largely of degenerated villi and elements from the maternal blood. In three types, the formation resembles an intravascular thrombosis and depends upon stasis of the maternal blood flow in the intervillous placental space and the presence of areas denuded in some way of their anticoagulative syncytial epithelium. The fourth kind probably represents a simultaneous involvement of all the branches of a stem villus due to a disturbance in the fetoplacental circulation.

Of 700 carefully examined placentæ which were delivered consecutively, infarcts of some kind were found in 677 per cent. There seemed to be no re lationship between their occurrence and the patient's age or number of pregnancies. All types were more frequent in placentæ from cases of toxæmia of pregnancy. The presence of infarcts had little or no influence on the welfare of the child.

E L CORNELL M D

LABOR AND ITS COMPLICATIONS

Jerlov E Does the Stimulus for Labor Have Its Origin in the Fetus? (Geht die Reizung zur Entbindungsarbeit vom Fetus auss) Acta obst et gynee Scand 10 6 v 128

In a series of experiments the author found that blood taken from the umbilical cord immediately after parturition contains substances which promote the activity of the resected guineaping uterus to a greater extent than other blood, including that of the mother

The blood tested was immediately defibrinated and diluted with equal parts of Ringer's solution. The uterus from a freshly killed guinea pig was then placed in this mixture which during the experiment, was ovygenated and kept at a temperature of 39 degrees C. The contractions of the uterus were resistered by the usual method.

In the author's opinion the results of these experiments strongly indicate that under normal conditions the stimulus to labor bas its origin in the fetus

Knaus II Remarks on Temesváry's Work on the Influence of Extract of Thymus on the Action of the Uterus and Its Practical Application in Obstetrics (Bemerkungen zur Temesváryschen Arbeit ueber den Einfluss des Thymusevtraktes auf die Uterustateigkeit und dessen praktische An wendung in der Geburtshilfe) Zentralbl f Gynack 1306 I 1304

In a review of Temeskary s work on the influence of thy mus extract on the uterus the author found that certain important factors were not given sufficient consideration by Temeswigy He criticises the fact that Temeskary's curves do not have any scale denoting the time and that care was not taken to obtain the uteri for study from young guinea pigs.

which had never been subjected to sexual excite ment. Temesváry failed also to take into considera tion the ovarian cycle, a fact which explains why his findings were so inconstant.

Because of the enormous doses of pituitin he used (doses which were equivalent to 150 c cm of extract of hypophysis in the case of the human heing). Temestary came to the erroneous conclusion that pituitin produces, not labor pains, but tetanic contractions. This is not the case when the proper dosage is employed. The relatively large quantities of 3 or 4 c cm of cool fluid added to that in which the uteri were suspended caused a marked thermic stimulation which also should not have been dis regarded. On the whole it may be said that valuable results in a study of the hormones can be expected only when abnormal dosages are avoided

Binz (G)

Deutschman D Painless Childbirth by the Synergistic Method Med J & Rec 1926 cxxiv

The author believes that with the rapid increase in the number of neurotic women, a by product of modern civilization, the relief of the pain associated with childburth has become more necessary. Of the numerous methods that have been tred there are at least two that fulfill all requirements. These are the Freiburg method or "twilight sleep" as used hy Krong and Gauss, and the synergistic method of Gwathmey.

The technique of the Gwathmey method as used at the New York Lying In Hospital is described in detail with several case reports illustrating the absolutely certain action of the method

HARVEY B MATTHEWS, M D

Kerr J M Munro The Technique of Cæsarean Section with Special Reference to the Lower Uterine Segment Incision Am J Obst & Gynce, 1926 vtl 729

In the classical cæsarean section the formation of a sound scar may be prevented by one or more of the following factors

following factors

r The difficulty in securing complete asepsis be cause of upward infection from the vagina

2 The state of degeneration of the uterine muscle fibers during the puerperium

3 Irregularity and puckering of the wound due

to the irregular distribution of the sheets of muscle forming the uterine wall

4 The state of unrest of the uterus subsequent to

the operation

only as coaptors but also to produce hæmostasis

6 The difficulty of suturing and approximating when the placenta is situated on the anterior wall

The author discusses the advantages of laparo trachelotomy and describes his technique for this procedure in which a transverse incision is made in the lower uterine segment

In a series of 107 cases there were eighty two clean cases with no deaths and twenty five doubtful cases with four deaths

F L Cornell WD

MISCELLANEOUS

Bailey II The Maternal and Infant Mortality In 4 488 Cases In an Outdoor Clinic 1922 1925 Am J Obst & Gynec 1926 vii 817

With close control and adequite facilities a teach mig service can be conducted with a considerably lower death rate than that generally previous members of community. If none outdoor clinic there was a reduction of soper cent below the figures for New York State. The still birth and neonstal death rate of 5 a per cent is more than 30 per cent lower than the figures for New York City. The uuthor believes that these low figures are due to (1) the transfer of the major operative cases to suitable hospitals is early in the labor as the complications become evident and (2) the asentic technique in the conduct of labor.

In the clinic and the transferred cases there were twelve obstetrical deaths or one in 374 cases—a rate of 26 pre 1 roos live births and still births. In the cases delivered in the clinic there were seven deaths or one in 641 cases a rate of 1 g oper 1000 live births and still births.

L L CONNEL M D

Anmiker II Results with the Luettge von Mertz Alcohol Extract Reaction (Excensise mit der A E R nach Luettge v Mertz) Zentralbi f Gyna k 1926 | 2301

On the basis of 75 experiments with the alcohol extract reaction of Luctige von Mertz the author

comes to the conclusion that with the extracts in his possession the prenatal diagnosis of the sex of the fetus cannot be made with sufficient accuracy for practical purposes but that the serological diagnosis of pregnancy may be employed in clinical cases and should be further developed.

The experiments reported were carried out with the latest medication of the alcohol extract reaction of Lucttee von Mertz with 68 5 per cent alcohol (serum of the maternal blood incubated for twenty four hours with fetal testicle as a substrate. If the fetus as runale this substrate will be attacked by the maternal serum and partially broken down into ammo and blue spilt products. These products can be detected qualitatively by the micro Kjeldahl or the Soren sen formol titration method or by means of the interferometer (for a detailed description of the method see *Unimheric media mische Wichenschrift 1921 Itzi 1931 (98)

In experiments with carcinoma extract as the substrate the Freund harmoner assertion that women in the late stages of pregnancy react to carcinoma was substantiated. Amery four per cent of all pregnant women whose blood was tested with carcinoma extract gave a positive reaction a fact which speaks strongly against the specificity of the reaction.

The pregnancy test was applied in 777 per cent

of all cases of pregnancy and was correct in 915 per cent. The strength of the reaction apparently became weaker with the advance of the pregnancy a fact shown also by the interferometric method.

WOLFF (G)

GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

Colston J A C and Scott W W Horseshoe kidnes with Especial Reference to the Im portance of Pre Operative Diagnosis J Urol 19 6 vvi 319

In horseshoe kidney there is usually a fusion of the lower poles The bridge or 15thmus varies in size, shape and character of tissue. It may be a fibrous hand or a membranous cord, but in most cases it is broad and thick and composed of secreting tissue The isthmus is usually situated anterior to the bifurcation of the large vessels at a level between the fourth and fifth lumbar vertebræ The renal pelves are never fused and are usually normal in size and structure The pelves he in an anterior position Of great surgical significance are the marked varia tions and anomalies of the arteries and veins. The vessels are usually multiple or branched and it is not uncommon to find smaller branches from the inferior mesenteric and the common external, and internal iliac vessels and a special artery to the bridge from the aorta

Rathbun found calculus, hydronephrosis, and pyonephrosis occurring more frequently in horseshoe kidney than all the other lesions combined. The

incidence of tuberculosis was also high

A correct pre operative diagnosis can be made if the condition is borne in mind The X-rays are of great and The pvelogram shows the renal pelves to be lower and more toward the mindine all calvees are in a downward direction and some toward the vertebral column The stereoscopic pyelogram shows the pelvis lying in an anterior position

At operation the kidney is approached through the usual loin incision. In 108 operations reviewed by Rathbun there were thirteen deaths. The authors believe that a correct pre operative diagnosis would reduce the mortality.

MAURICE MELTZER M D

kairis I. The Clinical Aspects and Diagnosis of Renal Calculi Which Are Permeable to the X Rys (Beitrag zur klinik und Diagnostik der strablendurchlaessigen Nierensteine) Zischr f urol Chir. 19 6 vx 66

This article is a review of the development of the roentgenological dignosis of renal calcult. After the introduction of the Albers Schoenberg compression diaphragm in 1902 the roentgenological demonstration of renal calcult was greatly facultated In 1903, Nuemmell and Rumpel contended that every renal stone could be rendered visible by the proper roentgen procedure and that a negative roentgen finding excluded the presence of a stone This assumption, however has been found erro

neous Immelmann estimated his wrong diagnoses at 3 per cent, Israel (1916) estimated his at 4 per cent, Kuemmell (1919) estimated his at 5 per cent and Cabot (1915) estimated his at not under 15 per cent

A further technical advance was achieved by the introduction of the Potter Bucky diaphragm Nevertheless we must still count on an error in diagnosis in from 3 to 5 per cent of the cases. In the presence of a calculus the roentgen findings may be rendered negative by several causes some of which are independent of the stone and others of which are due to the stone. Among the first are deficient emptying of the intestine, mistakes in the roentgenological technique obesity, rigidity of the abdominal musculature, the projection of the shad on of the stone upon some portion of the skeleton, and the accumulation of pus in the kidney careful preparation of the patient and a good tech nique, most of these causes of error can be elim inated occasionally repeated exposures are necessary

The difficulties offered by the stone itself can seldom be avoided. Absence of a shadow may be due to the small size of the stone or its chemical composition. The demonstrability of the stone depends upon its ability to absorb the roentgen rays as compared with the surrounding tissues and upon its thickness. The stones with the most dense, shadows are the calcium stones. Then in order of decreasing density, come those composed of car bonates, oxalates, phosphates. The cystin, vanithin, and unic acid stones give markedly weaker shadows. The hope of being able to determine the chemical composition of renal calculi from the intensity of their shadows has not been realized.

As a method of demonstrating roentgen perme able stones in the roentgen plate, Kuemmell, in 1913 proposed his impregnation procedure with roper cent collargol. According to the experiments of Kuemmell Jr, the best results are obtained with a 2 per cent silver intrate solution. Pyelography also helps in the roentgen diagnosis since a cleaning in the shadow of the pelvis may suggest the presence of a stone (Joseph, 1914). Other methods proposed are inflation of the renal pelvis with oxygen or air, picumoperitoneum, lateral exposure in pyelography, and pneumortdiography of the kidney bed

A case with a history of stone is reported. A simple roentigenogram was negative, but with the aid of pyelography it was possible to demonstrate a roentgen permeable stone in the pelvis of the left lidney. In the copies of six months the stone be came denser from the deposit of salts and at the end of that time could be demonstrated by a simple roentgenogram. A pyelotomy confirmed the diag nosis.

CLUER HESS M D

Hunner G L Drainage as a Factor in Renal Disease Surg Gynee & Obst 1926 thu 615 Hunner repeats his previous contention that ure

teral stricture is hilateral common and unrecognized by most urologists In the great majority of eases of hydronephrosis pyelitis calculous disease essential hæmaturia and many types of medical nephritis it is the primary urinary lesion. Conditions secondary to congenital malformations are due, not to the malformation, but to ureteral stricture

The cause of ureteral strictures is focal infection Its treatment is the eradication of foci of infection

and dilatation

Lisendrath D N and Koli I S The Pyelograph ic Diagnosis of Renai and Pararenal Neoplasms J Am W Ass 1026 istavii 1640

In the authors opinion pyelography and ureterog rapby are not employed to the extent they should be in the differential diagnosis of intraperitoneal

from retroperatoneal tumors

Certain pyelographic changes are of unquestion able value in the diagnosis of renal neoplasms and polycystie disease. To these deformities the terms spider ete have heen applied. The presence of a filling defect is typical of a neoplasm if the presence in the renal pelvis of blood clots fibrinous exudate ete can be excluded

Deviation of the ureteral (opaque) catheter or of the ureterogram is found in cases of pararenal neoplasms as well as in those of intrarenal neoplasms In the former there is no change in the contour of the pyelogram but in the latter there may be evi dences of rotation or displacement of the Lidney In cases of intrarenal neoplasms on the other hand there are always pyelographie changes in addition

to the ureteral displacement

Familiarity with the many variations in normal pyelograms especially of the pseudo spider type is essential for the avoidance of error in the inter

pretation of pyelograms

Certain inflammatory (non malignant) conditions of the fatty capsule (suppurative or fibrous pers nephritis) or of the parenchyma of the kidney (atrophic pyelonephritis tuberculosis) may give rise to changes in the pyelogram which greatly resemble those of neoplasms C TRAVERS STEPITA M D

Judd E S Parker B R and Morse H D Tumors of the kidney and Ureter and Tuber culosis of the kidney Surg Clin N Am 1926 V1 1137

The authors review a number of cases of tumor of the kidney showing the wide variation in symptoms. In one case there were no genuto urinary symptoms the complaints being entirely gastric yet when the urine was examined a trace of albumin and an occasional erythrocyte were found On further examination a diagrosis of renal tumor was made and at operation a hypernephroma was re moved. In another case recurrent attacks of severe colicky pain with the passige of many blood clots

occurred at intervals for three and one half years A diagnosis of papillary tumor of the renal pelvis was made and verified at operation. In neither of these cases were there any symptoms referable to the bladder The authors point out that a large amount of blood in the urine is indicative of malignant disease especially if bleeding is recurrent

In a case of primary papillary epithelioma of the ureter the chief symptoms were the passage of large amounts of blood with slight backache At first the symptoms suggested the passage of a renal stone On the patient's second visit to the clinic the prostate was removed and tissue from the right uteteral orifice was reported to be inflammatory At a third visit a definite lesion was found. The right ureteral orifice was of the golf hole type and a ureteral catheter met an impassable obstruc tion. At operation a primary papillary carcinoma of the ureter was found the kidney was normal Usually papillary carcinomata of the ureter are transplants from tumors in the renal pelves

What is supposed to be the first reported case of solitary cyst of the kidney and the earliest recorded operative removal in a living child of 8 months is discussed The mass in the loin was discovered at birth Very little renal tissue was found the sac being 7 5 cm in diameter These eysts are believed to be congenital defects and their symptoms are

purely mechanical In a typical case of tuberculosis of the kidney the symptoms consisted of marked frequency with burning Acid fast hacilli were found in urine from the left kidney Cystitis was severe and there were many uleers Nephrectomy was advised. At opera tion the typical large stiff, cedematous ureter was found The authors emphasize that in tuberculosis of the urmary tract the kidney is the first organ affected but that the disease is probably secondary to a focus in the chest or abdomen. The disease is primarily undateral and should be treated surgically Sixty per cent of the patients operated upon are eured and most of those who are not cured had tuberculosis of the opposite kidney

Meltzer M Papiliary Carelnoma of the Renal Pelvis J Urol 1926 xv1 335

A review of the literature showed that only 181 cases of papillary carcinoma of the renal pelvis have been reported Albarran reported forty two cases and Radder thirty one cases of tumor primary in the renal pelvis Of thurteen tumors primary in the renal pelvis which were reported by the Mayo Chinic eight were papillary carcinomata Spiess reported forty three malignant tumors and McGown reported forty nine including one of his own Smith found 178 cases in the literature Watson reported one

The author classifies these tumors according to Ewing as (r) papillomata of the pelvis potentially malignant, (2) papillary carcinomata arising from the pelvis epithelia and (3) alveolar carcinomata which represent infiltrating portions of the other types He classifies them clinically as follows

r Papillomatous tumors, which are characterized hy transplants to the ureter and hladder, cause bleeding early, and metastasize late Of the 18r collected cases, 144 belong to this group

2 Non papillary tumors characterized hy direct extension to the ureter No transplants are found Hæmaturia occurs in 50 per cent, and metastases are found in the lymph glands other organs, and the

bones These are more malignant

Hæmatura occurs in 70 per cent of cases of the papillary type of tumor and 50 per cent of those of the non papillary type Renal colic is not a constant sign Palpaton of the kidney is usually negative Visible blood clots may come from one ureter Renal function is dimmished Tumor cells may be found in the unne The pyelogram shows a filing defect

The prognosis is good in cases operated upon be fore the occurrence of metastasis Early nephro ureterectomy is indicated. Postoperative cysto scopic examinations for recurrence are imperative.

The author's case was that of a man 45 years of age In January, 1924 the patient passed a small quantity of bloody turbid urine and experienced a dull ache in the right renal area About cleven months later he had a second more severe attack of painless hæmaturia. Cystoscopy and pyelography showed active bleeding from the right ureteral orfice, and the pyelogram a filling defect in the upper calyces. As the left kidney was demonstrated to be functioning normally, the right kidney was removed Fruser's pathological diagnosis was appillary carcinoma of the renal pelvis. Since the operation, which was performed December 30, 1924, the patient has been entirely free from symptoms.

Begg R C Nephro Ureteral Anastomosis After Complete Avuision of the Ureter Brit M J 1946 11 589

Begg reports the case of a man 42 years of age who had a round calculus about 1 mm in diameter in the right renal pelvis but almost normal renal function

Pyelolithotomy was performed During the operation complete avulsion of the ureter occurred hecause of extensive ulceration of the pelvis and thinness of its wall Nephrectomy was undesirable hecause of the fairly good renal function The upper end of the ureter was split for 1/2 in on the outer surface and stitched to the intrarenal pelvis by sutures passed through the Lidney substance capsular flap was also turned down over the suture line The pelvis was opened through the cortex and a drainage tube tied in The free end of the catheter in the hladder was pulled out through the urethra hy means of the cystoscope The catheter was removed after seven days. At the end of six weeks the wound had healed and a large catheter was passed up to the kidney pelvis. After 10 c cm had been injected into the pelvis, the patient com plained of discomfort Five months later he had completely recovered and was carrying on his GILBERT J THOMAS M D regular occupation

Brown D A Ureterocele J Urol 1926, xv1 363

Ureteroccle is usually associated with a tiny ureteral ornice and atony of the intramural portion of the ureter. The weakness of the muscular wall is usually secondary to inflammatory processes in the seminal vesicles or the female pelvic adneta. The lesion develops progressively. All of the patients whose cases have been reported were adults.

There are no characteristic symptoms. The diag nosis is usually made by cystoscopic examination. The characteristic findings are a glistening cystic tumor at a urreteral crince, alternating between a ballooning and a retraction following the influx of urnie into the dilated region. The best treatment is fulgiration. Magnetic Milleles M D

Laws G M Ureteral Obstruction in Women Am J Obst & Gynec, 1926 vii 802

This report is hased chiefly upon a study of the last fifty patients examined by the author by ureteral catheterization on the gynecological service of the Preshyterian Hospital Philadelphia, in whom more or less ureteral obstruction was found

The principal chinical diagnoses were the following nephropiosis and hydronephrosis (non infected) in five cases, pyelitis, chronic or recurrent, in four, pyonephrosis in four pyonephrosis and renal calculution three, pyelitis of pregnancy and the puerpernum in five, ureteral anomaly in two, ureteral stricture traumatic, in one, ureteral stenosis in eight, and ureteral calculus in cighteen

At operation, the obstructive lesion was found to be a stricture in six cases. In one case it was tuber culous in two cases traumatic, due to mjury of the ureter during a complete hysterectomy, and in three cases, inflammatory. It is believed that some of the cases with regard to which the term 'stenosis' was used were cases of stricture but this was not definite by proved.

In women there are various types of ureteral obstruction that are more frequent than the obstruction caused by a ureteral calculus. They are found associated with dilatation of the ureter, hydro nephrosis, or back pressure effects on the renal parenchyma. When these symptoms are present and a calculus is not demonstrable, an examination should be made to determine the patency of the ureter. The symptoms of ureteral stenosis are essentially similar to those produced by stone. The treatment of choice is gentle gradual dilatation.

In the discussion of this report, OUTERBRENGE said that frequently obstruction to the catheter is found at one time, whereas at another time the catheter passes without difficulty Pyelitis will not clear up in the presence of definite obstruction. In the pyelitis of pregnancy the passage of a ureteral catheter clears the symptoms very quickly.

GINSDURG reported that he finds strictures of the ureter in the female very frequently. The urinary output in these cases is surprisingly good even when there is a moderate degree of hydronephrosis.

E L CORNELL M D

Herger C C and Schreiner B F Strictured Ureters Hydronephrosis and Lyonephrosis Occurring in Cancer of the Cerviz Uterl Based on a Study of Eighty Two Craes Surg

Gynec & Obst 1926 this 740

404

In a study of eighty two cases of far advanced cancer of the cervix the authors found that in a large majority there was a stricture of one or both ureters with accompanying by dronephrosis and pyonephro

As this condition prevailed in a great many cases before radiation was used in the treatment of the cancer the authors believe it logical to conclude that cancer of the cervix with extension into the broad ligament is sufficient of itself to stricture the ureters and cause kidney changes CLMER HESS M D

Ureteral Calculi Inn Surg 1926 Pugh W S Ixxxiv 8.c

In the opinion of the author ureteral calculi occur as a result of obstruction to the outflow of urine plus infection and one of the most important organisms eausing the infection is the bacillus proteus Calculi become impacted most frequently in the lower third of the ureter An impacted calculus may shut off the flow of urine but may not do so if it has a

drainage groove The formation of ureteral calculi is a condition of middle life occurring more often in women than in The most constant signs are hæmaturia and pyuria. In the treatment of ureteral calculi dilata tion of the ureter should always he tried unless there is a marked pyelonephritis or some other contraindication As a means of dilatation the author has found the rubber hag dilator contrised by Dour mashkin of great value. If dilatation fails extra peritoneal ureteral lithotomy is the operation of cboice HENRY L SANFORD M D

Ureteral Calculi A Review of Stirling W C Forty One Cases | trginia tf Month 1926 lin

The principal factors in the formation of unnary calcult are infections of the kidney urmary stasis and excessive excretion of crystatioids in the urine

It has been estimated that one half of the patients with ureteral stones will pass them without treat ment 25 per cent will pass them following mampula tion and the rest will require operative measures for their removal Approximately 75 per cent of ureteral stones become impacted in the lower seg ment of the ureter The incidence of recurrence following the passage of a stone 15 between 10 and 12 per cent About 10 per cent of ureteral stones are bilateral

The location of a suspicious shadow in the roent genogram may be determined by passing a shadow graph ureteral catheter on the affected side and then making a stereogram The poor shadow casting properties of uric acid cystin and xanthin stones account for the 10 to 15 per cent error of uretero grams in the diagnosis of ureteral calculi

The average age of the patients whose cases are reviewed by the author was 40 years The most common symptom was pain. This was present in os per cent of the cases The urine contained red blood cells or pus in 85 per cent

In three cases an operation was necessary for the removal of an impacted urcteral calculus. On an average three treatments were necessary to secure the passage of the stone. In several instances an indwelling catheter was left in the ureter for from three to six days I his established drainage and considerably reduced the infection. In no instance was there any untoward reaction

The author describes a forceps which he devised for the removal of calculi impacted in the lower segment of the ureter C TRIVERS STEPITY MD

Bumpus H C Ureteral Mentotomy for the Re moval of Stones from the Ureter J Urol 1026

Bumpus discusses the removal of stones from the lower portion of the ureter and describes the technique for enlarging the ureteral meatus with the scissors The procedure is made visible through a direct cystoscope The seissors with a double-edged morable blade follows into the meatus for about a cm behind a short filiform bougit. The hlade is then opened and the meatus slit as the blade is withdrawn live or six catheters are then passed up into the ureter twisted and withdrawn with the stone

In ten consecutive cases it was possible to remove the stone at the time of manipulation. In one case the stone caused obstruction and prevented the passage of a catheter or filiform bougi thus contra indicating meatolomy and necessitating ureteral hthotomy

I offouring manipulation one or two catheters were usually placed in the ureter and allowed to remain for twenty four hours to insure drainage and reduce the possibility of pyelitis Cystoscopy several weeks after manipulation showed a some what larger normally functioning orifice and cystograms taken in the extreme Frendelenburg posture failed to show urmary reflux

Fronstein R Empyema of the Stump of the Ureter (Drs Impyem des Harnleiterstumples) Zischr f urol Chir 1926 xx 183

The muscular tissue disappears from the stump of the urcter that has been left behind after nephree tomy whereas the mucous membrane and the lumen remain unchanged. As the peristals persists the contents of the ureter continue to be emptied into the bladder. This explains the fact that the stump of the ureter left behind usually does not give rise to disturbances But if the ureter was diseased before the operation it may be responsible for un pleasant complications after nephrectomy casionally a ureteral fistula develops in the nephrec tomy wound A prerequisite for this complication is a change in the valvular mechanism of the ureteral ostium with subsequent reflux. Usually the fistula closes spontaneously, even though bealing often takes a long time

A still more unpleasant complication is the devel opment of an empyema in the stump of the ureter A prerequisite for this is a disturbance in the pass sage of the lower section of the ureter. A uretero gram should therefore be made previous to every nephrectomy. If this shows a marked dilatation due to atony, stenosis or the formation of concretions, the ureter must be extirpated primarily or, at least, its proximal end must be sutured into the wound. The best treatment for empyema of the ureter is secondary ureterectomy. The deselopment of empyema of the ureter is not a frequent complication. In a practice of twenty years, the author saw only three cases.

BLADDER, URETHRA, AND PENIS

Helmholz II F Neuromuscular Dysfunction of the Bladder as a Cause of Chronic Pyelitis in Childhood 4m J Dis Child 1926 vvn 682

Braasch has divided cases of neuromuscular dysfunction of the bladder into those with definite clinical evidence of involvement of the central nervous system and those in which the lesson is limited to the terminal nerves of the bladder. The first type is termed 'cord bladder' because of associated disease of the spinal cord, the second, the 'atomic bladder,' so called because of its firbby musculature and dimnished expulsive power.

Fifteen cases of neuromuscular dysfunction of the bladder in children, six boys and nine girls are reported. The ages ranged from 1 week to 14 years. The diagnosis of cord bladder was made in nine cases after cystoscopic examination. In another case of cord bladder cystoscopic examination was not carried out. Four cases of atome bladder were observed. In this type of case there may be a loss of motor power only or of both motor and sensory power. A single instance of very marked relaxation of the urethra was found in a girl 7 years of age who had absolutely no unnary control.

The most common complaints were incontinence and frequency In most cases the bladder could be emptied only by voluntary effort of the abdominal muscles, and then only partially All but one patient had had attacks of fever and on admittance, were suffering from definite pyuria. Another strik. ing feature was the round or pyriform tumor situ ated above the symphysis pubis but not always in the median line, which disappeared on catheteriza tion In most cases the amount of pus in the urine was evidence of marked urinary infection. In most cases the function of the kidney was not seriously impaired Roentgenograms of the Lidneys ureters, and bladder showed nothing abnormal in these organs, but spina bifida occulta was found in six cases and marked deformity of the spine in three

Cystoscopic examination definitely established the diagnosis, although the history and roentgeno grams frequently made a presumptive diagnosis possible Trabeculation and hypertrophy of the bladder as well as relaxation of the internal sphinc ter, were evident Reflux into the ureters was found in only four cases. All cystograms showed that the bladders were large and cone shaped, and in some cases irregular and trabeculated.

As in uncomplicated pyelitis flushing of the urinary passages is perhaps the most important single item of treatment Of equal importance is the prevention of an excess accumulation of urine by drainage of the bladder at regular intervals. The use of hexamethylenamin with ammonium chloride in addition to forcing of fluids has sometimes reduced the amount of pus very markedly but does not clear up the infection Local applications only tempo rarrly reduce the evidence of infection Surgically there is very little to suggest. In certain cases with out infection of the upper urinary passage or with only slight involvement transplantation of the ureters into the sigmoid as in exstrophy of the bladder, may be attempted if there is not too great dilatation of the ureters

Stern M Resection of Obstructions at the Vesical Orifice New Instruments and a New Method J im M Ass 19 6 lxxxvii 1726

It has been observed that large prostates shrink markedly following resection of the intruding lobes or the contracted sphincier. This could not occur if the prostatic lobes were the site of a true hyper tropby. The fact that this chunge does occur forms the basis upon which rests the rationale of minor surgery of the prostate gland.

Whether the cause of the prostatic calargement is inflammation or infection from residual urine due to sphincteric contracture or the pressure of intruding fibrotic lobes, it is certain that the relief of these conditions by resection results in the abatement of the inflammatory reaction and a diminution in the size of the organ. The mere removal of sections from either the enlarged lobes or the contracted sphincter causes them to lose their succulency and resume the much reduced size and solid consistency of the non inflammatory state.

With the author's method any desired number of sections can be removed at a single sitting from either the lateral or the middle prostatic lobes or from the sphincter under the guidance of the eye and without causing bleeding. This is accomplished by a cystoscopic procedure with a cutting current in a water medium by means of a movable loop of tungsten wire, longitudinal spaghetti like sections of tissue being removed. The instruments used are called the 'resectotherm and 'resectoscope,'

The resectoscope is essentially a cystoscopic in is of the indirect vision type for examination and diagnosis and the other, of the direct vision type, to be used during the operation

respectively

The resectotherm delivers a radiofrequency current in a continuous flow through the cutting loop under water without causing sparking. Therefore fulguration effects which result in slough and

hæmorrhage are ehminated After a thorough examination with the indirect vision telescope the direct vision telescope is in serted. The part to be resected is engaged in the fenestra the cutting loop is put into position in front of the eye of the telescope against the engaged tissue and the current then turned on When the halo and bubbling ensue the loop is advanced until it has traveled the full length of its fenestra (34 in) through the tissue contained therein leaving a clean cut with only a slight discoloration of the surface In bars and contractures a sufficient number of parallel sections are taken from the floor of the sohincter. When there is considerable lateral lobe encroachment on the lumen of the posterior urethra the sections are removed in a continuous line. As a rule the simple instillation of procaine hydro chloride solution into the urethra and bladder is sufficient for anxisthesia but in inflammatory con ditions associated with considerable irritability caudal anasthesia is best

In forty six cases in which this treatment was used there was no bleeding ol any importance or reaction of any sort In many the americation of the symptoms was striking after a single treatment. Only a few sequired a second treatment. Prequency of meturition and residual urine were reduced about 50 per cent in the first week and in all cases the condition was improved in the course of four weeks. In three cases of complete retention voluntary micrution occurred from two to six weeks after the operation. Overflow dribbbing in two cases was arrested immediately.

In obstructive carcinoma resection is more logical than cystolomy for draining. In cases with bars or contractures nothing more ratheal is justified It finds its chief indication in the early stages of prostatic disease as at this time minor surgery should arrest the disease and prevent advanced prostation.

Barney J D Intramural Carcinoma of the Dome of the Bladder J Urol 1926 XVI 369

Barney reports the case of intramural cartinoma of the dome of the bladder in a woman 47 years of age. During cystoscopy the bleeding ulceration was masked by the air bubble until the patient was turned on her side and the bubble thereby displaced After several fugurations and periods of freedom from himmaturia the local condition appeared to be progressing. Therefore fifteen months after the first attack of hermaturia an exploratory laparot omy was performed.

A stony hard mass was found infiltrating the upper half of the bladder. This was widely resected forsily the growth was limited to the wall penetrating the mucosa only at the site previously seen during cystoscopy. Microscopically it was an undifferentiated, infiltrating primary carcinoma of the bladder wall The hæmatuna recurred six months later and a year after the operation the patient died from complete intestinal obstruction due to metastatic in vasion of the intestines and mesentery

In a review of the literature on vesseal tumors the author found that neoplasms in the dome of the bladder are rare, constituting only about 1 per cent of vesseal tumors. He quotes Scholl who states that these tumors are usually highly maligant and extensive and since they occur in a comparatively symptomics area of the bladder they grow large before operation is attempted. He concludes that the possibility of such a tumor should be considered whenever the diagnosis of a bladder condition is obscure. JEONY MERCHISTER MD.

Schmitz II and Lathe J F F Roentgen Ray Treatment of Inoperable Carcinomata of the Urbary Bladder J Am M Ass 1926 [xxxiii]

Of fifty three cases of advanced and inoperable cancer of the urinary bladder twenty one were treated with radium slone nunction with the cautery and radium or roentgen irradiation combined and thriteen with massive short wave roentgen rays exclusively.

Following radium treatment the average duration of side was less than eighteen manths in the primary cases and eight months in the secondary cases and following treatment by cauterization and irradiation combined it was four months in the primary cases and eight months in the secondary cases.

Of the cases treated with the roentgen ray ac classively seven were primary and six secondary. Four patients with a primary cancer and three with a secondary cancer are now well and free from symptoms. One was treated thirty, four months ago two twenty months ago and two fourteen months ago two twenty months ago and two fourteen months and one patient died after two months one after six months and one after seven months. The authors attribute the good results obtained.

with short wave roentgen rays to the homogeneous penetration of the cancer bearing area by a known roentgen ray dose the radiation sensitiveness of bladder carcinomata and the absence of trauma and bear autitation in the traumaters.

and local sentation in this treatment Gibbert I Thomas M.D.

Judd E S The Treatment of Carcinoma of the Bladder by Radical Surgical Methods J 4m W Ass 1926 Icezen 1620

The author points out that carcinoma beginning in the tawns of the bladder rarely metastassizes and that death in auth cases as due usually to secondary infection in the kidneys and surrounding thosis As a rule the malignant growth begins near one of the uncteral onfices and ligation of the ureter with subsequent removal of the kidney is resorted to or the ureter with subsequent removal of the kidney is resorted to or the ureter is transplanted. Extrap ritioneal resection has been found more advantageous than transportational resection.

Good results following operations for carcinoma of the bladder about equal those obtained from radical operations on the breast, stomach, and

colon

In 527 cases of tumor of the bladder seen at the Mayo Clinic the average length of life after the treatment varied with the treatment. The results were most satisfactory in the cases treated by radium irradiation and fulguration the average length of life being 36 7 months Many of the tumors in this group were of low malignancy and some were definitely benign Following radium irradiation and excision or resection the average length of life was 21 56 months, following radical operation alone it was 18 57 months and following cautery treatment alone it was 13 57 months. In cases in which only cystostomy was performed the length of life was 6 75 Radium irradiation was not usually successful when used alone, but was of value when supplemented by surgical procedures

In a review of 208 other cases in which surgical treatment with or without radium irradiation was given it was found that fifty patients were still alive after more than five years Of 308 patients subjected to other forms of treatment only twenty eight sur

vived for a similar period

Death in this series was due to diseases which might be expected in any group of persons of ad vanced age (average 55 92 years) such as pneumonia, uræmia, embolism, and intestinal obstruction. In 167 of the 708 cases however, death was due to carcinoma of the bladder

The author concludes that early radical operation offers the best results in carcinoma of the bladder. and that procrastination and conservative methods

render the case moperable

Chute A L Ureteral Transplantation in Bladder Carcinoma J Am V Ass 1926 Ivxxii 1613 Waters, C A Deep Roentgen Ray Therapy in the Treatment of Carcinoma of the Bladder J Am M 4ss 19 6 ltxxxii 1618

CHUTE believes that to obtain better results in carcinoma of the bladder more radical surrical measures which require transplantation of the ureters are necessary Even with such treatment, however, the results are discouraging. In 170 of Chute's operative cases there were eighty six deaths from the operation or the disease, and recurrences in many others

Carcinoma of the bladder is relatively slow to give off metastases Chute believes that many deaths which are attributed to dissemination of a carci noma of the bladder are due in reality to its recur rence combined with an infected hydronephrosis Certain bladder growths, especially those of the adenocarcinomatous type, begin in the deeper layers of the bladder wall and extend under the mucosa for a considerable distance without causing any surface change To prevent local recurrences after palliative operations for infiltrating bladder growths the logical procedure would be the removal of the

bladder itself If the bladder outlet is involved, nothing but a complete cystectomy can give any permanent result Radical operation is necessary also for recurrences which are not amenable to the

high frequency current Cystectomy has been performed relatively in frequently partly because of the technical difficulties of the operation, but chiefly because of the prelim mary difficulty of dealing with the ureters satis factorily Permanent lumbar nephrostomy has proved unsatisfactory as has the bringing of the ureter to the surface in the loin The Coffey trans plantation of the ureters, as modified by others, is destined to have a far reaching influence on the treatment of cancer of the bladder

A good result has been obtained with total cystectomy anterior to the peritoneum and fixation of the two ureters in the rectum at one sitting

Keeping a good sized tube in the rectum for several days after implantation of a ureter probably safeguards the suture by preventing the accumula tion of gas and bowel contents Feeding the tube inserted in the ureter into the intestine is better than sewing it to a tube introduced into the rectum The author suggests also the possibility of using an appropriate sized sterile gum elastic bougie intro duced through the incision in the sigmoid with the free end of the tube in the ureter tied over its upper end, as a means of getting the tube through the anus, and using the bougie as a guide

In Chute's cases there has been no sustained ex cretion of urine for some time following operation Excretion did not begin much earlier than thirty six hours after the operation even in the cases of pa tients whose kidneys were stimulated because anuria was feared. This gauging of Lidney activity and the timely warning given of impending kidney failure are the chief purposes served by the tubes in the

ureters

In the male prostatocystectomy seems indicated The prostate is separated from the rectum at one operation a few days earlier than the main operation This is done under spinal anæsthesia in order to save the kidneys from extra etherization extraperitoneal cystectomy may be done under ether at a later time, and if conditions warrant it the ureters may be implanted into the rectum by the Coffey technique at the same sitting If conditions do not warrant the implantation of the ureters, the tubes inserted into them may be brought out through the abdominal or perincal incision both the intraperitoneal and extraperitoneal cys tectoms, the locating of the ureter is facilitated by the introduction of a ureteral catheter

Maoy patients with bladder tumors die from renal sepsis due to compression of the ureter. None of the methods other than cystectomy or resection of the hladder with re implantation of the ureters will meet this condition. If a permanent cure seems improbable, the risk of implantation of the ureters into the sigmoid combined with the removal of the

hladder may be warranted

Chute believes that total cystectomy either preceded or followed by transplantation of the ureters is the best method of dealing with extensive in filtrating tumors of the bladder stubborn recurring growths of the papillomatous type and growths involving the bladder outlet

WATERS states that in his opinion the best treatment for superficial papillars, carenomas local ized or extensive is a combination of deep \ ray therap, with radium applied directly to the surface of the growth. The results of this treatment are better than those obtained when the tumor is given from 600 to 800 mem his of radium before the

\ ray treatment

With this combined treatment most of these tumors can be destroyed with minimal injury to the bladder and often with but little or no irritation of the bladder mucosa

In infiltrating carcinoma which is still operable radical resection is indicated since it offers the great

est chance of a complete cure

Twenty five per cent of the infiltrating growths in the author's series occupied positions that rendered them inoperable or were so extensive that their radical removal was impossible. In such cases if radium can be applied directly to the growth both radium and deep. I are treatments should be tired since their results are sometimes favorable. If the results are not astisfactory or if the growth is sufficiently localized to warrant the implantation of radium needles the bladder should be opened supra pubically and screened radium needles, should be implanted throughout the growth. If the growth is so extensive that a total of more than 2 500 mgm hrs. is necessary for thorough destruction of the cancerous area by implantation this method is contra indicated.

Waters experience with diathermy is too recent

to warrant definite conclusions

In conclusion Waters states that the tendency of bladder tumors to recur following their apparent destruction by fulguration irradiation or deep \tag ray treatment makes it importative for the pitient to return at frequent intervals for existoscopic examination. In a few of the author's patients who returned for observation the recurrences responded well to radium alone especially those of non-infiltrating papillary carcinomata. Even in incur able cases regardless of the treatment employed deep \tag ray treatment is an excellent palliative measure as it tends to control harmorrhage and to decrease nerty-foot pain. Douis halumar MD decrease nerty-foot pains.

Pugh W S Stricture of the Female Urethra

J Am if 155 1970 treven 1799

Pughsays that his attention was first drawn to the frequency of stricture of the uretura by the relief from urnary symptoms which is experienced by so many women following cystoscopy. Stricture of the female urethra was first described by Listiane in 1843 but the first investigation of the condition was made by Stevens of San Francisco in 1920

Osgood found ninety cases of stricture of the female urethra in 169 urological cases and the author found eighty six cases in 460 examinations. Among the causes are trauma including injuries due to childbirth and catheterization tumors such as caruncle and papilloma syphilis and tuberculoss:

occurs in the anterior third of the urethra. In none of the author's cases was it possible to introduce a

of cases the goneoccus is responsible.

The stricture begins on the floor of the urethra and may entirely enterfer it. It is soft and dense.

The symptoms include increased difficulty in emptying the bladder dribbling dysuma urgency frequency signs of toximia. The stricture usually

The author agrees with Skene that in the majority

of the author's cases was it possible to introduce a builb larger than a No 18 F. The results of stricture are dilatation of the bladder ureters and renal prehes. The treatment is dilatation preferably gradual the size of the bulb being increased two numbers a week up to size 26 l. The dilatation should be done once a month for a year. The simple remedies should always be tried first but in filliom and smaller strictures operation may be necessary

BENJAMIN P ROLLER M D

GENITAL ORGANS

Chute A L The Relation of the Small Obstructive Prostate to Certain Other Bladder Conditions Boston M & S J 1926 ever 889

Chute calls attention to the fact that patholo rail conditions in the bladder are often due to the small obstitutions in the bladder are often due to the small obstitution. The triports two cases. In the hist case a suprapulue expectation, was done for vesical calculus but after the closure of the suprapulue cound there were 100 or of restudiu inne and the patient still experienced the difficult in mice turtion that accompanies we rail obstruction. A diagnosis, of small obstructive prostate was then made and the prostate removed through a perincal inci ion. The patholo₂ call diagnosis was adenomatic ion. The patholo₂ call diagnosis was adenomatic tom, the patient reported that he was in perfect tom, the patient reported that he was in perfect tom, the patient reported that he was in perfect.

The second case was that of a 54 year old man with a diverticulum of the bladder. The diverticulum was resected and about a month later several intra urethral masses obstructing the vess all outlier were resected. Some time after the operation the patient reported in good physical condition with no unitary as minoring and no residual uniter.

Chute concludes that obstruction at the neck of the bladder by any of the several types of small prostate may be a factor in the causation of vesical stone and diverticula J Sydyr Riffer MD

Hunt V G Suprapubic Prostatectomy for Benign Prostatic Hypertrophy A Consideration of Pre Operative and Postoperative Management Sury Lonce & Obst. 1026 vhit 769

The successful management of the patient with surgical prostatic obstruction demands meticulous

care in the pre-operative, operative, and postopera tive procedures. Pre-operative treatment success fully combats actual or potential unemia and provides an opportunity to improve the cardiovascular renal reserve. The operation performed under guidance of the eye insures the patient against surgical accidents and the use of regional anaesthesia is devoid of a depressant effect on the kidneys and obviates the occurrence of the postoperative pull monary complications incident to the inhalation anaestheties.

MISCELLANEOUS

Parmenter F J and Leutenegger C Retention of Urine in Children with and without De monstrable Cause Am J Dis Child 19 6 vxxii 60

The authors report in detail two fatal cases of chronic utnary, referention in female children without mechanical obstruction of the urethra who were apparently normal up to the first year of age Of ede at the age of 2/2 years and the other at the age of 5 years. On cystoscopy, chronic cvstitis hyper trophy and trabeculation of the bladder were found and a cystogram revealed a unlateral enormously dilated kinked ureter and ponephrosis. No autopsy was performed. The authors describe the condition as 'an obscure disturbance of innervation or possibly some spinal cord lesion of either inflam matory or toxic nature affecting the bladder center'

Four other cases illustrating less uncommon causes of unnary retention in children are reported All of the patients were males. Two were cases of congenital valve formation in the posterior urethra. One of these was treated surgically with recovery. One was a case of spina binfid with faulty bladder innervation producing the urinary retention. This case was obviously incurable. Another was the least of a child of 17 months who had had attacks of dysura since birth and from whom a urethral stone was removed. A year later after recurrence of the symptoms, a stone was removed from the bladder suprapulscally.

The authors call attention to the usual misidous ness of the onset the only symptoms often being toss of weight and strength, hastric disturbances with nausea and secondary namem similar to that of nephritis. An early diagnoss is frequently difficult because of the inability of the child to express himself. In many cases this condition becomes apparent only in its late stages too late for per manent relief from surgery.

J FOWIN KIRKPATRICK M D

Scholl A J Cohabitation Colon Bacillary Uri nary Tract Infection J Am W Ass 1926 lyxxvn 1704

Pyelonephritis from colon bacillus infection fol lowing attempts at coitus and the wounds incident to rupture of the hymen occur rather frequently but no cise has been found in women who have borne

children The patient usually complains of frequency dysura and pain in the renal area. In some cases there may be a high temperature, costovertehral pain, and great prostration. The urine contains both pus and colon bacill. Sometimes the condition remains latent for years and assumes chinical importance only when a mechanical obstruction such as that produced by pregnancy or stone causes stasis in the urinary tract.

The author reports two cases which he treated successfully by washing the kidney pelvis with 1 per cent mercurochrome 220 soluble and giving methenamine and sodium acid phosphate by mouth

The colon bacillus is frequently found in the urine of women who are habitually constituented. Trauma permits the infection to gain a foothold. Bauereisen in discussing the tubercle bacillus said that a bladder with an intert mucous membrane cannot be infected. It is probable that in the cases under consideration the bladder is primarily infected and the infection is carried to the kidneys by the blood or ly mphats is or by direct ureteral extension. If wounds of the hymen are responsible it must be carried at least part of the way by the blood stream. By whatever route it travels the resulting condition is the same

Once established postnuptial pyelonephritis has a tendency to become chronic and to resist treatment. There is no satisfactory method of prophylaxis.

In the discussion of this report Braascii said that he is now using to c cm of 1 per tent mercurochrome intravenously following the injection of 500 c cm of physiological sodium chloride solution. This treatment is especially efficacious when the blood cultures are positive

VECKI said that he prefers the intravenous injection of sulpharsphenamine to the use of mercuro chrome

ARETSCHMER warned against the frequent error of diagnosing the condition as gonorrhoa

BENJAMIN F ROLLIR M D

Martin II W and Arbuthnot R E Spinal Anæsthesia in Urology J 1m W 1ss 1926 lxxvii 1723

From the surgeon s point of siew spinal anæs thesia is ideal as it facilitates the operative pro cedure is associated with only slight risk and with less danger of pulmonary and ronal complications than other forms of anesthesia and gives excellent muscular relavation abdominal quiet usually per fect antigesia and nerve blocking which aid in the prevention of shock.

In the average case of suprapulue prostatectomy the dangers of spinal annesthesia are less than those of ether anesthesia in the same type of patient. Moreover in spinal anaesthesia there is no interference with the ingestion of fluids, which is so necessary to the patient's recovery. Vomiting occurs considerably less often than when ether is used.

Disregarding caudal parasacral and field block the authors believe that in the average case spinal anæsthesia is the best form of anæsthesia for litholapaxy, external urethrotomy urinary extrava sation suprapubic cystotomy and prostatectomy the excision of vesical diverticula and difficult cystoscopies in patients with extreme bladder in ritability from conditions such as vesical contraction. tuberculosis stone diverticula, or tumor

The most serious faults of spinal anasthesia are the sudden drop in the blood pressure severe de pression of the cardiovascular and respiratory sys tems nausea and vomiting during the operation, and headache. The cases for spinal anesthesia must be selected with care. In a small percentage there is a temporary paralysis of the sphincter

In more than 6 000 operations performed under spinal anæsthesia at the Los Angeles General Hos pital Los Angeles California there were six deaths Three were not due to the anasthetic and two were due to an overdose. The untoward symptoms following spinal anæsthesia include syncope vomiting headache numbness of the feet severe headache and neck pain. The headaches may be prevented by keeping the patient in the recumbent position for several days

Especially when the operation is to be time consuming extremely nervous patients should be given a preliminary opiate (morphine and atropine) unless this is contra indicated. Unless the operation is to be an abdominal procedure the patient will arrive at the operating room in better condition if he has some orange juice or black coffee with sugar early in

the morning When there is doubt as to the dosage of anasthetic indicated it is better to err on the side of too little hrs is 7,06 the maximum dose If necessary the

has a factor in administration of the supplemented with attention of indicated a factor of 20 gr of procame of the factor of the Outgo or either A dosses specially second for or consecutive to the second and may be used a should are sixed a second as a second second as a second second as a second second as a second sec reged Add May be used as a soft at but attended to the soft as a soft at but attended to the soft at but attended to the soft at but attended to the soft at the they one where as a solvent out

the anasthetic quickly the tment 1 nds to co rout nams

> I ugh says that his attet frequency of stricture of from unnary symptoms v many women following cy female urethra was first 1824 but the first invest was made by Stevens of

Stricture Am Af tss 1920 1 hot Only freshly prepared solutions should be used

A marked fall in the blood pressure calls for the Trendelenburg position for at least ten minutes The patient must be carefully watched Nausea is evercome by oxygen inhalations or the adminis tration of pituitary extract hypodermically Marked hypotension is relieved by lowering the head the administration of a few whills of nitrous oxide or the hypodermic injection of pituitary extract or epi nephrin Theinhalation of ammonia ether or nitrous oxide causes temporary stimulation. Headaches are best relieved by lowering the head the use of seda tives and see caps or the intravenous administration

of saline solution The authors draw the following conclusions

I Spinal angesthesia is contra indicated in pa tients with marked circulatory hypotension and those with myocardial degeneration or anamia

2 Its safety and desirability are increased by the addition of light nitrous-oxygen anasthesia

3 Central acting drugs are valueless only drugs with a peripheral pressor action are of value 4 Blood pressure readings should be taken fre

quently 5 The morning cup of black coffee with sugar or

orange juice is beneficial 6 As a rule a preliminary opiate should be

7 The needles should be of small caliber and of mekel or nickeloid

g Loss of spinal fluid should be avoided as much as possible o in selected and carefully supervised cases the

mortality with spinal angesthesia should be less than t in 1 000 which is considerably less than that associated with inhalation anasthesia

10 Spinal anasthesia is most valuable and efficient for operations below the diaphragm when complete muscular relaxation is sought but should be used only with discrimination and for special reasons LOUIS NELWELT VI D

SURGERY OF THE BONES, JOINTS, MUSCLFS, TENDONS

CONDITIONS OF THE BONES JOINTS, MUSCLES, TENDONS, ETC

Allen B An \ Ray Study of the Development of the Ossification Centers of the Skeletal System Radiology 1926 vii 398

A roentgen ray study of the ossification of the skeleton is valuable in determining (1) whether a fetus is born before term, (2) its age, if it is born before term, (3) its age, if it is born before term, and (3) the age of any individual less than 30 years of age. The author includes in his article a table giving the ossification centers, the time of appearance of the centers, and time of union of the first and second centers in the bones of the upper and lower extremities. Roentgen ray study will frequently show which of a pair of twins is the older

Allen found that, up to the age of rr years, ossification progresses more rapidly in females than in males. From the eleventh to the fourteenth years the development in the two sexes is equal. After the fourteenth year, the rate of ossification is more rapid.

in males than in females. These findings were made in a study of the carpal bones.

CHARLES H HEACOCK, M D

Harts H A The Growth of the Long Bones in Childhood, with Special Reference to Certain Bony Striations of the Metaphysis and to the Role of the Vitamins Arch Int Med , 1926, 173711 785

Harns describes transverse strations in the long bones of a non rachitic child which are manifesta tions of cessation of growth and occur not only normally in adolescence but also in all cases of marked decrease in the rate of growth due to acute illness or to starvation and as a part of the healing process in rickets

The skeletal processes are analyzed in terms of (i) the area of cartilage proliferation related to the water soluble, growth promoting vitamin or vitamins (2) the cartilage calcification and degenera tion, related to the enzyme of Robinson or Vitamin

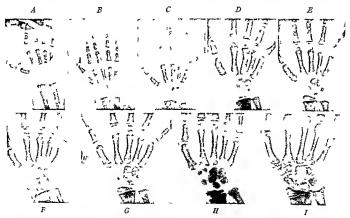


Fig 1 Development of carpal bones from ages of months 7 days to 13 years 1 month 26 days A 2 months 7 days B, 3 months 2 days C 4 months D 3 years 4 months, 23 days L, 3 years 4 months

days I, 4 years o months 9 days G 5 years, 4 months 19 days H 8 years 6 months 28 days I 13 years 1 month 26 days

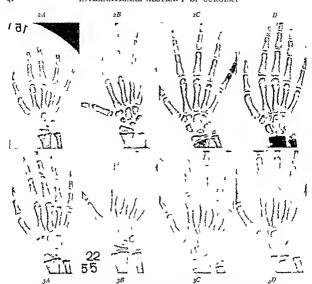


Fig 2 Hand of twins from the age of 4 years 2 months and 3B 6 years 7 months 2C and 3C 8 years 5 months to 9 year 6 months 2A and 3A 4 years 2 months 2B and 3D 9 years 6 months

tll n - in 1 Pay Sudy of th D v lopm at of the Oppinication Centers of the Skeletal System

\ and \(\frac{1}{3}\) o sification proper related to the fat soluble \(\text{starmin A proper}\)

The author suggests a rational basis applicable to all ages for the analysis of the processes involved in discases of cartilage and bone. Hi states that growth promoting vitamins are water soluble.

DA IEL H LEVINDHAL M D

Maass H The Anatomical Results of Mechanical Obstruction to Growth (Die anatomischen Auswirkungen mechanischer Wachstuffswider staende) Ar u f orthop u Unfull CF r 1926 Vuv 161

Mass states that so long as the bones continue to grow and their enchondral zones are active the proper progress of the up building process is of the greatest importance. Disturban es of this process are explained not by biological tactors but by the sample has of the mechanics of motion. The move ments related to the formation of bone are subject to the same mechanical laws as all other movements even those of manimate objects. (Likesvier (Z)

Schmidt A Histological Studies of Experimen tally Produced Pseudarthroses (Histologiche Untersuchungen bei experimentellen I seudarthro en) Fette kim Chie 1926 cxxxx 463

To gain ome insight into the regressive and re generative processes which are active in the forma tion of pseudarthroses. Schmidt produced pseudarthroses in four dogs. In the first animal a section 1 cm long was resected from the upper third of the radius. In the second a 1 cm section was removed from both the radius and the ulna about midway be tween their upper and lower ends. In the third animal the femur was cut through in about the middle with a Gigli saw the periosteum was pushed hack from the end of the distal fragment for a dis tance of about 1 cm and the stump of bone de prived of periosteum was covered by a desulphurated rubber cot which was fixed in place by means of a silver wire encircling the hone. In the fourth dog the femur was sawed through the marrow cavity was curetted out to a depth of 1/2 cm and closed with a plug of wax, and a rubher cot was applied to the hone in the same way as in the third dog

In every instance the wound healed without a reaction. The first dog was killed after four and a half months the second after three and a half months the third after three months and the fourth after two and a balf months. In the first animal necropsy revealed a rather rigid pseu darthrosis of the radius Longitudinal section through the specimen showed that the two ends of the bone had approached each other to within 3 mm of contact The space between was filled by a fi broug tissue not rich in cells, the fibers of which were looped from one bone end to the other. In places this tissue exhibited a fibrocartilaginous character A slight periosteal reaction was evident on the two cut ends of the radius and also on the surface of the ulna which was nearest the pseudarthrosis marrow cavities of the ends of the radius were closed by masses of spongy osseous tissue. These plugs were rather sharply delimited from the interposed fibrous tissue Occasional protruding points of bone had been disintegrated by giant cells but this proc ess of resorption had not been very active. In the region of the periosteal callus formation on both stumps of the radius there were tiny marrow spaces filled with a relatively richly vascular lymphoid marrow By the process of periosteal callus forma tion the ends of the pseudarthrosis had been rendered club shaped Especially in the proximal fragment the old cortex had been eaten away from the mar rou cavity

In the case of the second dog necropsy revealed a comparatively rigid pseudarthrosis with a trifle more mobility and slightly less lateral displacement of the frigments than that found in the first dog Section disclosed much more distinct and extensive regressive changes than in the first case

In the third animal there was a more marked longitudinal displacement with angular hending of the femoral axis. The rubber cot and the wire were found hing loose in a small cavity containing a small quantity of clear fluid

In the fourth dog the rubber cot the wire, and a sequestrum which had become rounded were found in a similar cavity

In the third and fourth specimens the proximal stump of the femur had become club shaped as the

result of active new growth from the periosteum This thickened area was hy no means uniformly separated from the neighboring tissues by the ossi fication process Among the traheculæ of cancellous hone there remained numerous interstices so that the marrow cavity was separated from the sur rounding connective tissue which was poor in cells by a layer of more vascular tissue rich in cells In certain areas the spicules of spongiosa had been eaten away hy giant cells. In the third specimen the distal fragment exhibited on section a peculiar mushroom like point which in the area that had been covered hy the rubber cot was narrowed to about one half its diameter elsewhere. The marrow cavity of the entire specimen was spongy and the cortex was fragmented throughout its entire extent. The distal stump of the fourth specimen exhibited a slightly excavated form and was covered by a thick tayer of dense connective tissue rich in cells which resembled granulation tissue only in its most super ficial layer Besides the round sequestrum, there was a thick layer of periosteal new bone formation to the end of the stump

The last two series of microscopic sections show that operative procedures which endanger the nu trition of the periosteum especially those in which the bone is encircled by wire may result in extensive regressive changes in the cortex. Worthy of note was the marked connective tissue reaction in the region of the original marrow civity which ex tended far beyond the point reached by the way

These studies demonstrate also the influence of insufficient mechanical demands upon the hones and show that in spite of a marked hyperæmia regenerative process may fail entirely in certain areas and the originally progressive changes may

give place to regressive processes

The author then discusses the theories based on the microscopic and clinical findings. He comes to the conclusion that Marchand's conception of the osteoblasts as derivatives of connective tissue fur nishes a satisfactory explanation of the various high ly differentiated tissues which are closely associated in pseudarthrosis. The periosteum, he believes is the chief factor in the regenerative processes but the endosteum and marrow are also capable of forming callus and new bone. The metaplastic hone formation can he traced only hy histological exam in ition it cannot be studied in the roentgen picture It is of no practical importance in pseudarthrosis The interposition of periosteum as a cause of pseudarthrosis has not heen satisfactorily demon strated Without hyperæmia no regeneration is possible On the other hand hyperæmia is not the only factor in regeneration. The in growth of connective tissue from the surrounding regions is a hindrance to regeneration but its effect may be over come if the tissue is crushed between the ends of the hones and the mobility of the pseudarthrosis is limited by impaction of the fragments

HAUMANN (Z)

Karshner R G Osteopetrosis tm J Roentgenol

Osteonetrosis is defined as a hereditary disease essentially a disturbance of the mesenchyme which is manifested primarily by extraordinary thickness and density of the cortical portion of the osseous system at the expense of the medullary portion and gives rise to a diversity of secondary conditions such as multiple fractures epiphyseal deformities physical underdevelopment hydrocephalus optic imperfect dentition anaemia various leukæmic states and metaplasia of bone marrow elements leading to enlargement of the liver spleen and lymph nodes It has been described heretofore under numerous other names such as marble bones and osteosclerosis but the author prefers the term osteopetrosis because it describes the primary pathological condition bone petrifaction karshner gives a short historical review of the

condition briefly abstracts case histories collected from the literature and reports with photographs and roentgenograms four cases seen by himself He discusses the condition at some length which regard to its relation to age sex the internal serious vitamines lices and heredity. The gross and microscopic changes are recorded. The diagnosis is findings. These consist estentially of increased density of the bones of the entire skeletal system. The epiphyseal lines remain unclosed into early adult hie epiphyseal lines remain unclosed into early adult hie Bird mention is made also of the course treat

ment and prognosis of the condition The treat ment is chiefly prophylactic

Acolph flartung M D

Lienboeck R On the Tumorous Diseases of the Bones Primary and Vietastatic Brit J Radiol 1026 XXXI 174

This is a very excellent and well illustrated sum mary of the roentgen ray characteristics of bone

mary of the roentgen ray characteristics of bone tumors

The author divides such tumors into two main

groups 1e primary and secondary Group 1 includes the osteomata exostoses chon dromata dystrophies with fibrous degeneration of the bone marrow and the formation of central harmatomata expansive cysts gaint cell tumors malignant sarromata multiple myelomata multiple presults from pus forming cocce tubercle bacilla subulis etc.

Group a includes the metastatic tumors. These the author dundes into four types (1) the purely osteolytic usually having their origin in a primary medulary, carenoma (2) the osteolytic with diffuse infiltration which are more difficult to discover usually result from a carenoma of the thyroid gland and are frequently accompanied by new bone formation (3) strongly mixed osteolytic and osteopinetic metastases occurring as a rule in older persons and due to a scirrhous earrichman and (4) purely

osteopoietic metastases occurring almost always in men of advanced age with a fibrous carcinoma of the prostate ROBERT V FUNSION M D

Phemister D B and Gordon J E The Etiology of Solitary Bone Cyst J 4m M 1ss 1926

The relations have the stress to account the solitons and the stress to account the solitons are stress to account the solitons and the stress to account the solitons are stress to account t

The solutary bone cyst is essentially a disease of the period of growth According to one theory it is a degenerated tumor and according to another a localized malacia A third theory attributes it to hæmatoma formation, and a fourth to bone marrow infection

The authors believe that the evidence is most in favor of the infection theory. Bloodgood and Mallory regard the changes in the cyst wall as those of chronic inflammation. Others believe the microscopic changes are those of a lon grade infectious soteomyelvis. The destruction usually begins centrally in the end of the shaft. The grant cells in these cysts are of a foreign body, type and apparently form from endothelial cells of the blood vissels in from the retuculo endothelial system but not as osteoclasts. As the Lewises have succeeded in growing grant and endothelioud cells in riving from blood stream monocytes another possible source is the monocyte inflittating from the blood stream

The course of the condition is similar to that in which large pockets are formed around the roots of teeth with failure of new bone to form about the area

of destruction

The authors report two cases in which cultures yielded streptococcus vindans an organism fre quently found in chronic penapical dental infections In both there was a sufficient leucocytosis to charac terue the condition as inflammatory.

ROBERT V FLASTEN MD

Rowlands R P Myeloma and Cavitles in Bone Best J Sueg 1926 th 224

My cloma is a benign bone tumor growing from red marrow and composed chiefly of multinucleated gaint cells embedded in spindle and round cells. It is not necessary to amputate for this tumor. Row lands reports four case.

Case i was that of a young adult male who sustained a blow on the outer side of the thiba The injury was followed by a swelling over which egs shell crackling could be felt. At exploration a typical myeloma was found occupying three fourths of the upper end of the thiba. The tumor was shelled out and the cavity curectice and washed with by section but at the unsettene of the patients family based on the advice of another surgeon the leg was subsequently amnutated.

Case 2 was that of a man 30 years of age who following an injury to the knee one and a half years previously developed a tumor which had been diagnosed as a central sarcoma of the femur. After the application of a tourniquet to the thing reploration was made through the outer side of the femur.

The growth found was very soft. In some areas it resembled a dark clot and in others was white and almost caseous. The pathologist diagnosed it as myeloma. The growth was completely scraped away and the wound closed, the cavity being allowed to fill with blood. The blood gradually ossified, and when the patient was last seen he was making an unevent full recovery.

The third case was that of a man of 20 years who had had an injury to the knee eight months previously and was admitted to the hospital with a large firm swelling over the external condyle of the femury ray examination indicated a central tumor. At exploration through the outer side of the femury at typical my eloma was found. The diagnosis was confirmed by microscopic study. The tumor was scraped away and the cavity allowed to fill with blood. The patient made an uneventful recovery. Later roent genograms showed the cavity filled with an ossified mass.

Case 4 was that of a man "o years of age who had had pain in the left knee for two months. The reentgenogram showed in the internal tuberosity of the tibia a pale area which suggisted myeloma Operation revealed a jam like mass. This was completely scraped out and the cavity, allowed to fill with

blood Uneventful recovery resulted

The author states that these cases prove that the best way to treat myeloma consists in carefully shelling out the growth and allowing the cavity to fill with blood which later will ossify. To prevent fracture at the site of the operation, proper splinting is necessary until the cavity has ossified

FRANK G MURPHA M D

Trethowan W II Massage and Remedial Exercises in Bone and Joint Diseases Guvs Hosp Rep Lond 1926 lxxxx 433

For mechanical efficiency of the locomotor system an adequate leverage action is essential. The lever must move easily about its fulcrum and with a force sufficient to overcome the external resistance or work to he done. All disorders of the limbs are therefore separable into those affecting the lever itself (the bone), the fulcrum (the joint), the force (nerve muscle), and to complete the illustration, the resistance (statuc conditions—overwork).

Massage has only two effects—reflex and mechanical. The reflex effect is seen in the relief of pain and spasm by superficial strokings in a case of acute injury. Mechanical effects result from the application of greater pressure. Such pressure is used to improve the circulation of blood anil lymph, to mobilize contracted and thick-ened tissues, and in the abdomen to produce reflex contracture of unstriped intestinal muscle.

The chief movements of massage are stroking compression picroussion, and vibration. After an acute injury early active movement is essential for the complete restoration of mechanical function. Massage prepares for early movement. Tremor is a sign of too great active movement. Passive move

ment, if carried too far may be harmful because it increases the trauma

The importance of the early application of physical methods of treatment in recent injuries is becoming increasingly appreciated. The presence of septic infection open wounds and ulcers should not be regarded as contra indications to such treatment.

The author discusses the treatment of simple fractures without initial displacement, impacted and metrolocked fractures, and fractures with gross displacement, the effect on union of movements at the site of fractures, the mobilization treatment of fractures in general, the treatment of fractures into joints, the pathology and treatment of sprains and dislocations, including minor sprains, bruises of articular cartialge stubbed joint, injury of synovial fringes, and traumatic synovitis and the pathology and treatment of strain and laceration of muscles and tendons, including tenns leg and elbow, rider sprain sprained back, traumatic tenosy novitis, and the postoperative treatment of tendons

Pemberton R Arthritis J Am W Ass 1926 1xxvvi 1253

The author states that arthritis is a manifestation in the joints of an underlying rheumatoid condition involving many tissues of the body. To explain the action of distant foci of infection, the effect of exposure fatigue overeating and the menopause, the high incidence of arthritis in middle life and the effect of heat, massage, and other remedial agents we must admit a disturbance of the underlying physiological function

Pemberton investigated arthritis from the stand point of dynamic pathology. In a study of numerous cases he found a lowered basal metabolism in 20 per cent and delayed removal of glucose from the blood after its ingestion by moutb in 60 per cent. This condition was not diabetic. The lowered sugar tolerance was accompanied by a rise in the 20x year.

content of the blood

From his experiments Pemberton concludes that at least part of the rheumatic syndrome consists in interference with the blood flow presumably in the finer capillaries. Measures to increase the flow through the finer capillary beds are beneficial. In many blood counts from arthritic patients there was found a tendency toward a diminution of the cellular elements in the first blood obtained at the extreme persphery

The disturbance in basal physiology explains the futility of most treatments aimed at one phase of the problem only. Therapeutic measures of value in clude the removal of the cause a low calone diet, colonic massage and irrigation to remove toxins, the use of vaccines, and the injection of non specific proteins.

The author has found that there is a close contact between the blood stream and the synovial fluid and that substances which were thought to be prevented from entering the joint tissues find access to them by way of the blood stream and the synovial fluid

Vasodilators may have a beneficial effect by dilating the capillaries about the joint

TRAVE G MURPHY M D

Todd A 11 Syphilitic Arthritis Best J Surg 1926

The author states that syphilitic arthritis is of frequent occurrence and should be borne in mind whenever a disposit of arthritis is made. It occurs in many forms and in virging severity in all stages

of syphilis both congenital and acquired

In congential syphilis there are two forms (1) Parrot is syphilitic ostecohondrists which is a justa epiphyseal inflammation usually occurring in the first three months of lie and showing the typical foenigen ray incture of an irregular epiphyseal line, widening of the articular space thickeuing of the periosteum cupping of the diaphysis and irregular density of the bone near the cartilage and (a) Clutton spoints a symmetrical hydraribrosis affect ing both knees and without much pair. In both types the prognosis good if anti-syphilis treatment is instituted early

In acquired syphilis arthritis occurs in various forms at every stage of the disease. There is no strict delimitation of certain forms to certain stages one form may merge into another. Usually syphilius cathritis is more severe in the later stages of sphilis than in the early stages. The prognosis is not good.

unless the treatment is vigorous

Arthralgia occurring in secondary syphilis is more an ache than a pain and is chiefly nocturnal. The

discomfort is not increased by movement

Hydrarthrosis in secondary syphilis may be a transient early by drops or a later and more persistent form The early transient hydrops usually affects the knees but may be polyarticular Fluid is abundant and the synovial membrane is swollen The pain is moderate The condition responds readily to anti syphilis treatment. The later and more persistent hydrarthrosis may be chronic from the outset or may become chronic following an acute onset. It may be symmetrical but two joints are seldom equally affected by it at any given time There is a marked tendency to relapse usually at irregular intervals. The discomfort is of moderate seventy. The condition may disappear spontane ously or may require anti syphilis treatment

The plastic form of secondary syphilitic arthritis is much rare than hydrathrosis. It is characterized by thickening of the synowal membrane and especially of the persynoval tissues. The whole joint seems swollen and the swelling has the shape of the joint cavity. There is very little fluid Such fluid as there is is turbid and thick and gives a positive. Wassermann reaction in a certy instantion. The response to treatment is very slow but recovery.

results in most cases eventually

Termany syphilitic arthritis is characterized in the early stage by distention of the point with thickening of the synovial membrane. At this stage the condition usually responds quickly to anti-syphilis treat ment The later stages which show all degrees of guromatous change may or may not respond quickly to treatment

The gummatous process may be purely local or may affect the entire joint. The condition may result from congenital or acquired syphilis. Ax hausen has described two forms the synovial and

the osseous

The synovial form occurring chiefly in children is usually due to congenital syphilis. The amount of effusion is usually very considerable and the pain slight. Though the condition is called synovial it.

is in reality a perisy novitis

The osseous form when it occurs in children may be primarly an epiphysits. In adults it resembles an ordinary osteo arthritis. The roentgenogram shows bony changes but as a rule all of the structures of the joint are affected. This condition also may simulate tuberculosis very closely. The prognosid depends upon the amount of change that has taken place before treatment was begun. If the treatment is delayed or inadequate gross osteo arthritic changes or analysiosis may occur. This form of arthritis may be monarticular.

A pseudo rheumatic type of arthritis occurs in children with congenital or acquired syphilis and more rarely also in adults. In children it sometimes involves several joints simultaneously but when this is the case one joint is more severely affected than another. It may be differentiated from rheumatism by the fact that it does not respond at all to salicylates its rate of evolution is usually much slower than that of true acute or subscute rbeumatism keratitis occurs in about 75 per cent of the cases and there is little pain. The patient may complain only of slight discomfort when the joints are moved or of stiffness. There is distention of the affected joints but the joints are not red and there is little or no muscular wasting. The tempera ture remains normal

In adults the pseudo rheumatic form of arthritis resembles rheumatism very closely. It occurs in young adults and affects several joints in rapid succession. There is often considerable pain which is increased by movement of the joints or pressure upon them. The joints are very tender swollen and critical method with the swollen and the temperature may be raised considerably. However, the administration of solicylates is which therefore whereas anti-syphilis treatment resultion in the properties of the swollength of the properties of the swollength of the swollength whereas anti-syphilis treatment resultion in the swollength of the sw

rapid and permanent cure

The pseudo rheumatoid form of syphilitic arthritis
closely resembles typical rheumatoid arthriti but is
characterized by a positive Wassermann reaction

and responds to arsenicals and mercury

The diagnoss of syphilitic arthritis must be based upon a carefully taken lamly history and the history of the patient's previous diseases and his present conduction. Wassermann tests should be made on the blood and on the fluid from the affected joints. Usually the reaction will be positive. If the reaction is doubtful the use of anti-syphilis treat ment will clear up the diagnosus. The following

clinical features of the condition should be empha sized painlessness symmetrical synovitis, unimpair ment of health, failure to respond to salicylates osteocopic pain and associated evidence of symbils

The prognosis depends upon whether or not the case is diagnosed early and whether or not vigorous anti syphilis treatment is given and continued for a sufficient length of time. The results of anti-syphilis treatment are not nearly so satisfactory in the late cases as in the early ones. Frank G MURPHY M D

Ilench P S and Jepson P N The Differential Diagnosis and Medical and Orthopedic Care of Several Different Forms of Chronic Arthritis Med Clin N Am 1926 x 563

In reporting five cases of chronic arthritis to illustrate the various forms of the condition classified according to the cause the authors discuss the im portance, from the standpoint of treatment, of a simplified nomenclature based upon the etiology The term ' infectious arthritis, lor example, would suggest at once the obliteration of foci of infection and the care of metastatic infection. In traumatic or irritative arthritis the trauma must be checked eradication of foci is either not specifically indicated or of minor importance. In the senescent lorm of arthritis the treatment can be only symptomatic palliative, or to a degree prophylactic since the cause the retrogressive tissue changes of old age are in the main unalterable. In chronic rheumatic fever the treatment should consist in the eradication of all foct as soon as possible, intensive salicylate medication, the local application of limment and heat, and a suitable regimen and prophylaxis In chronic gouty arthritis a low protein purin free diet is indicated. The fluid intake should be increased atophan administered and physiotherapy instituted for the relicf of the pain

In all of these cases, proper attention to correct loot balance usually gives relief Physiotherapeutic measures must be carried out intelligently and orthopedic appliances used when needed

Ely L W Chronic Arthritis Its Treatment with Emetin California & West Med 1926 xxv1 625

For two and a half years Ell, has been using cmetin in selected cases of what he refers to as the second type of arthritis, 'which includes osteo arthritis, hypertrophic arthritis, and arthritis de formans. The patient is examined for alveolar in fection and if this is found it is treated. The stools are examined for protozoa and if these are discovered the full anti-parasite treatment is given.

The full afti parasite treatment consists in twelve daily injections of 1 gr of emetin hydrochloride interspersed with three weelly injections of neo araphenamine beginning with 0.45 gm and increas ing to 0.9 gm in the cases of men and 6.0 gm in the cases of ween and 5.0 gm of 1 gm of emetin bismuth indide

When protozoa are not found in the stools the neo arsphenamine is omitted

If this treatment causes a fall in the blood pressure a rise in the pulse nausca diarrheea or severe general malaise it is immediately discontinued

The author reviews the results in eighty six cases
From these he concludes that emetin has a distinct
value in the treatment of selected cases of chronic
arthritis
CHESTER C GUN, M D

Seelinger P The Fate of Effusions of Blood in the Joints (Zur Frage des Schicksals von Blutergue se im Gelenken) Kim Wichnschr 1926 v 1616

According to general opinion blood remains fluid in the joint cavities. This is attributed partly to lerment action, partly to the lack of fibrinogen and partly to the changes effected in the fibrinogen by contact with the endothelium.

Experiments performed by the author on dogs led to the conclusion that there is no demonstrable ferment inhibiting coagulation in either the synovial or the synovial membrane. Coagulation depends on whether there is movement of the joint or not When the joint is moved coagulation does not occur because the blood becomes defibrinated by the movement. When the joint is kept at rest after the effusion of blood, clotting occurs and subsequently the formed elements become separated from the clot.

Montagne J Infectious Spondyllits and Growth Spondylitis A Contribution on 'False Pott's Disease (Spondylites infectieuses et spondylites de croissance contribution a l'tude des faux maux de Pott) Pressemed Par 1926 xxviv 125

Montagne states that spondy litts and spondy losis are very frequently confused in the literature. They are two very distinct conditions. The term 'spon dvlosis' should be reserved for chronic inflamma tions of the spinal column (chronic vertebral rhu matism), and the term spondy litts for subacute inflammations of the spinal column. The latter are generally specific.

Spondylosis differs from sponds litis in its sudden beginning in the course of convalescence from an in fectious disease or in the course of a septicemia, in its definite etiology which can almost always be determined by laboratory examination and in its rapid evolution toward complete recovery without ankylosis under orthopedic treatment with or with out vaccine treatment.

The importance of a study of these infectious forms of spondylitis dies in their differential diag noss from Potts disease. The chief forms of in fectious spondylitis are those of the typhoid group due to typhoid and paratyphoid bacilli, staphylococ c etc. They are subacute forms of osteo arthritis of the spinal column and occur generally in the lumbar region. As they affect the perivertebral tassues particularly, they can be easily demonstrated by roentgenography. Clinically, they present a 10st syndrome in which functional sy mptoms pre-dominate, especially pain and rigidity of the spinal column.

These forms of spondylitis which simulate tuber culosis of the vertebræ are caused by a large number of infections They can generally be diagnosed by clinical and laboratory study and roentgen exam ination

Another group of spondulitis cases with Potts syndrome are eases of growth spondylitis These are difficult to classify because there is no histors of infection. The condition comes on during adoles cence A diagnosis can be made only by roentgen examination and a study of the later course of the disease This group includes the vertebral epiphy sitis of adolescence described by Lance Sorrel, and Delahaye certain painful kyphoses and kypho seolioses in adolescence the vertebral infantile osteochondritis of Calvé and the vertebral anophy sitis of adolescence. One of the roentgen signs in growth spondylitis is the vertebral compression which heretofore has been considered peculiar to Pott 5 disease

In a certain number of these cases the roentgen examination is negative. There is no sign of change in the epiphy scal laming or of premature ossification and only sometimes a slight vertebral compression which quickly disappears. However the nature of the disease is shown by its course. In the author's opinion these cases of growth spondylitis without roentgen signs are cases of attenuated staphy lococcic osteomyelitis of the spine

Except in syphilitie and echinococcic spondylitis the prognosis of infectious spondylitis and growth spondylitis is favorable Orthopedic treatment (rest in bed and the application of plaster) and vaccine or specific treatment generally give excellent results Surgical treatment (curettage laminectomy etc.) is indicated only in very serious forms of staphy lococcie streptococcie and echinococcic spondylitis and its results are uncertain

AUDREY G MORGAN M D

Perman E On Hæmangiomata in the Spinal Column Acia chirurg Scand 1926 In 91

PERMAN reports the ease of a woman of 24 years who for two years had had symptoms of com pression myelitis and was subjected to laminectomy following a dlagnosis of tumor of the spinal cord The arch of the eighth dorsal vertebra was found to be hypertrophied and its osseous tissue was bleeding

Although the response to electrical stimulation of the muscles of the leg was almost entirely abolished the operation was followed by complete recovery of

mobility as well as of sensibility

Microscopic examination showed the tumor to be a hamangioma According to the roentgenological examination it had infiltrated the entire vertebra The roentgenogram had a characteristic finely reticu lated appearance

The literature reveals similar eases in which death resulted from compression myelitis The most prominent features of the clinical picture have been compression symptoms Root pains have not occurred Symptoms from the spinal column have been absent or have appeared only in the later stages of the condition In one case the vertebra infiltrated by the tumor was entirely compressed In Permans opinion a case reported by Gold and differently interpreted by him was a case of hamangioma of the spinal column

key J A The Treatment of Tuberculosis of the Hip J Messours State U 1st 1926 xxiii 388

In the treatment of tuberculosis of the hip the patient's economic condition is an important factor A tuberculous hip can never be restored to normal however early the treatment is begun or however faithfully it is carried out. The best result that can be hoped for is a firmly ankylosed joint in good posi tion Such a joint is useful prinless and safe from a recurrence of the disease

In the average ease in a child conservative treat ment requires about four years. Therefore arthrodesis the accepted method of treatment for adults is being more generally recommended for younger patients For patients over 10 years of age her advises operation if the disease does not show signs of permanent arrest as he believes that no attempt should be made to obtain motion in a tuberculous hip unless the case is being treated by heliotherapy in a special heliotherapy institute. However he cautions against operation in a fulminating case with fever great local swelling and heat rapidly increas ing abscesses and progressive loss of weight

He describes an operation for arthrodesis of the hip which is performed with the Smith Petersen incision and a technique of his own in which the trochanter is loosened and shifted inward and osteoperiosteal grafts are placed between the ileum and the neck of the femur CHESTER C GUY MID

Henderson M S Surgical Lesions of the Hip Joint Surg Clen A 1m 1925 vi 1283

The author first describes the hip joint and the structures of importance about it and discusses the reasons for its great stability and the difficulty of exposing the joint The joint may be entered anteriorly laterally or posteriorly. Henderson uses the Smith Letersen technique but makes a long elliptical incision from midway between the antero superior and posterosuperior spine posterior to the great trochanter and then anteriorly below the trochanter In this way contamination of the groin is aroided

Seven cases are reported in detail—a ease of con genital dislocation of the hip in which the shelf operation was done to give stability to the joint and prevent further upward dislocation two eases of tuberculosis of the hip in which arthrodesis was per formed and a flap of bone thrown down from the thum over the upper end of the femur a case of osteo arthritis with destruction and overgrowth of the head of the femur in which the head was removed and the neck placed in the acetabulum at the time of the correction of the deformity the reconstruction operation heing advised because of failure of the arthrodesis operation in this type of case, two cases of ank-joins of the hip in which an arthroplasty was done with the use of fascia lata around the remodeled head after the acetabulum had been reamed out (the type of patient has a great deal to do with the final results of this operation as the patient's co operation is necessary) and a case of fracture of the neck of the femur in which the fracture ends were freshened and a grift from the fibula was introduced through the trochanter into the neck and head

The author states that in ununited fracture of the hip excellent functional results can be obtained by the bone grafting method in from 75 to 80 per cent

of properly selected cases

Balensweig I Fernoral Osteochondritis of Adoles cents and Its Sequelæ Epiphyseal Separation of the Hip Surg Gines & Obst. 10 6 xhii 604

The author reports eighteen cases with twenty instances of separation of the femoral capital epiph ysis. The cases were equally distributed between the two seres. The average age of the patients was 13 a sers. Nine of the patients were overgrown Fitteen of the hips had been subjected to mild trauma but in no instance was the injury severe enough to cause a fracture in a normal child of the same age. There was an ultimate shortening of from ½ to 1 in. The average was ½ in.

Following a discussion of the rôle of infection, rickets, endocrine dysfunction and trauma in the development of the condition the author states that there is a striking relationship between osteo chondritis deformans juviculis and femoral osteo chondritis of adolescence. He believes that the cause is a low grade infection and that trauma and endocrine dysfunction are contributory factors.

Attention is called to the following sequence first decade Legg Calve Perthes disease second decade femoral osteochondritis complicated by varying degrees of slipping of the capital epiphysis third decade and later osteo arthritis

DANIEL H LEVINTHAL, M D

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Pitzer P Experimental Investigations on the Prevention of Adhesions in the Transplanta tion of Tendons and the Production of a Rigid Connective Tissue by Chemical Means in the Treatment of Orthopodic Conditions (Ciperimental Beitrage zur Verhuetung von Verwach sungen be Schneaverpflanzungen und zur Erzeugung eines straffen Bindegewebes mit chemischen Mitteln soweit es füer die Behandlung orthopacischer Leden in Betracht kommt) Zischt f orthop Chr. 1926 (1911) 328.

The author reports experiments in which he at tempted to find a means of preventing the formation of adhesions between a transplanted tendon and the surrounding structures Especially in the vicinity of fascia and bones the formation of dense adhesions must be prevented for at least six weeks. The mobilizing exercises then begun will prevent further difficulty.

Pitzen employed in his experiments autoplastic fatty tissue, fascia, tendon sheath veins, and peri toneum, homoplastic tendon sheath, heteroplastic material (which because of its preparation, was really of the nature of alloplastic material) such as hermal sac, fatty tissue prepared in various ways, and pig's bladder, and alloplastic material such as paper bandage steeped in glycerine parchment paper, celloudin, and celluloid

Even though the conditions of the experiment were rendered intentionally as unfavorable as possible, the formation of adhesions was prevented by auto plastic fatty tissue fascia, and peritoneum and by alloplastic paper bandage parchiment paper and celloidin When heteroplastic materials were em ployed, suppuration and extrusion from the wound

occurred in every case except one

The second part of this report deals with experiments in the production of a strong, dense connective tissue. Such tissue would be desirable in all cases of corrected deformities in which apparatus and spinits must be worn until the lax tissues become adapted to the new conditions produced by the correction and are able of themselves to prevent a recurrence of the faulty posture. Since recurrence is not always preventable by the wearing of apparatus and since the use of apparatus is not always possible a chemical or other method of hastening the process would be of great value.

The experiments reported show that the growth of connective tissue is markedly hastened only when there is a local emigration of leucocytes. A development of connective tissue of any practical importance was observed by the author only in regions

where abscesses were formed

The materials used to stimulate the formation of connective tissue included paper bandage soaked in chemotactic substances such as alkali albuminates of liver and muscle tissue casein, oil of turpentine and alcohol formalin, fibrin, and Wundol' used with or without paper. None of these substances produced a dense connective tissue in sufficient quantity to act as a substitute for the wearing of apparatus.

Bennett G E The Use of Fascia for the Re Enforcement of Relaxed Joints Arch Surg 1926 xm 655

There is sometimes found in young persons a type of relaxed knee which functions normally in orditinary activity but does not permit participation in active rugged athletic pursuits. Examination shows the anterior crucial ligament to be stretched, at temated or tom but as a rule the semilunar carticage is intact and normal. The disability permits outward rotation of the tibin and an increase in the abduction of the thia when the leg is in a semifiexed position. When the patient attempts to make a sudden turn with the leg slightly fleved and the

thigh adducted a pseudo locking or slipping out of the knee occurs

The operation advocated by the author for these cases is designed to reinforce the capsule of the joint in such a way that it will help to sustain the leg when it is in this position and will act as a suh

stitute for the anterior crucial ligament The joint cavity is opened by an incision medial to the inner border of the patella The debris or fringes of the crucial ligaments are removed and closure is made by overlapping the ligamentous structure and drawing the capsule as tightly as mattress sutures will permit. The fascial covering of the capsule is treated by the same overlapping method. In this way there is formed a thick ligament extending from the inner border of the patella obliquely across the joint. In a few recent cases the author has added strips of fascia to the plication of the cansule re enforcement of the lateral border of the internal

After the operation plaster of Paris is applied for from four to six weeks and at the end of that time gradual exercise and development of the quadriceps and hamstring muscles is begun

In five of the six cases operated upon in which Bennett has used this method the results have been excellent

The operation is indicated only after all con-

servative measures have failed

In cases of recurrent dislocation of the shoulder the joint is approached through an anterior incision extending from the acromion process downward senarating the fibers of the deltoid and exposing the anterior and inferior part of the capsule. The tendon of the long head of the hiceps is identified and used as a guide to the line of fascial suture. A strip of fascia is taken from the fascia lata fixed to the Gallie type of needle and the arm being rotated externally is laced into the capsule in a zig zag fashion. The capsule is then drawn taut and the lacing fixed firmly to the capsule by chromic catgut sutures The fascia is then passed through the tip of the acromion process either by a needle or through a drillhole in the process fixed at this point and re attached to the anterior part of the capsule The technique is shown in excellent illustrations

After the operation the arm is immobilized in a Velpeau bandage for a period of four weeks and at the end of that time gradual use is begun

A GOTTLIEB M D

Henderson M S Surgical Treatment for Residual Infantile Paralysis Minnesota Med 1926 18 621

Every case of infantile paralysis should be care fully studied before operation is performed. The type of patient and his social status should he taken into consideration as stability must often be secured at the cost of comfort Before operation is under taken sufficient time must have elapsed for the paralyzed muscles to have regained maximal power It is generally accepted that plastic operations should

not be performed before the lapse of eighteen months hut manipulation and tenotomy for the cor rection of deformity may be carried out earlier. The distribution of the paralysis may be such that opera tion would not be worth while

Two types of operations for infantile paralysis are

Procedures for the correction of deformities These include manipulation followed by retention of the part in the proper position after the correction tenotomy the stripping operation the stripping of the os calcis in pes cavus and the stripping of the tensor fascure femoris from the iliac crest for the correction of flexion deformity of the hip

· Procedures to increase function which are usually employed in cases without deformity. In tendon transference the muscle used should nearly approach the muscle for which it is substituted since after transference there is often a 50 per cent loss of power The most common operations of this type are the transference of the tibialis anticus to replace the peroneus longus or vice versa and the trans ference of the hamstrings into the patella in cases of flast knce Frequently performed stabilizing operations are Whitman's astragalectomy with back ward displacement of the foot triple arthrodesis in which the subastragaloid and midtarsal joints are arthrodesed shoulder arthrodesis with the arm in abduction of from 75 to 80 degrees and forward 70 degrees the mobility of the scapula being utilized fusion of the spinous processes and lamine in paralytic scoliosis of the structural type and the bone block operation of the Campbell type for drop foot

Dorrance G M and Wagoner G W periosteal Bone Graft J 1m 11 1ss 1926

The authors believe that in the hands of the average surgeon the osteoperiosteal bone graft gives better results than the Albee inlay In experiments on dogs they found the use of the former successful in the repair of bone defects and the ankylosis of joints by bridging. In clinical cases they have used them with good results in the treatment of ununited fracture of the humerus skull defects and fracture of the 12w

They emphasize that when ankylosis is at tempted it is advisable to lay the graft extra articularly ROBERT \ TUNSTEN M D

Séneque J The Late Results of Resection of the Etbow (I ésultats éloigné des résection du coude) Presse med Par 1926 xxxIV 1351

This article is based on a recent report by Comte of Lyons on the late results of resection of the elbow performed by Ollier in cases of tuberculosis and ankylosis of the elbow. The cases have been fol lowed up for from five to sixty years Comte re ports the power and degree of the different move ments of the elbow and illustrates his case historics with roentgenograms

The statistics include fifty five cases of tuber culosis of the elbow in which Ollier performed resection by his method. Eleven were followed up for from twe to ten years: that there for from ten to twenty years, ten for from twenty to thirty years hirteen for from thirty to forty years six for from fort to fifty vers, and two for from fifty to sixty, years

Fighteen of the patients were operated upon be tween the fourteenth and twentieth years of age twenty four between the twentieth and thirtieth years, six between the thirtieth and fortieth years four between the fortieth and fifteth years and three between the fiftieth and sixtleth years and through it is very unusual to operate upon patients more than 50 years of age, Ollier obtained good results in two of his three patients who were older than 50 years of the patients who were older than 50 years of the patients who were older than 50 years of the patients who were older than 50 years of the patients who were older than 50 years of the patient was able to write and to do light work. He is not able to hold any weight with the arm in the horizontal position but when it is hanging down he can hold a weight of 20 kgm.

Comte classifies the functional results as very good when the force and extent of the movements exceed two thirds the normal as good when one of the two factors does not reach this level but is not less than a third normal, as quite good when one of the two factors falls below a third of the normal and as poor when a nearthrosis has not been formed and when there is more or less complete ankylosis or a fiail joint. As the object of Ollier's resection is mobilization. Comte classifies the results as poor also in cases of ankylosis in good position. In other statistics these are classified as good.

According to this classification, the results were very good in twenty six cases good in fifteen fairly good in eight and poor in six Among the cases with poor results were four with ankylosis. In three of the latter a secondary operation was performed with good risults. In the other the ankylosis did not develop until ten years after the resection and a second operation was not performed. In the two other cases with poor results there was a fail joint, but the patient is able to write and to do light work with the arm supported.

From these findings it is evident that a satisfactory result was obtained in fifty five cases (05 per cent). In 48 per cent of the latter the force and range of motion of the arm operated upon were practically equal to normal.

The anatomical and functional results are not necessarily parallel. The anatomical result may be good and the functional result poor and vice versa lhis is shown by the roentgenograms. When Olher's results are compared with those of other surgeons they are found to be definitely superior. The special feature of Olher's method is subperiosteal resection. Comte describes the technique in detail.

The statistical study of the results of resections for anhylosis included twelve resections for arthritis. The results were very good in eight cases good in two fairly good in one, and poor in one. In the

cases with a poor result the ank-losis recurred but a good result was obtained by a second operation. There were also nine resections for ank-losis following trauma. Four were total resections and five were semiarticular humeral resections. In three of the four cases of total resection a very good result was obtained in the other the ank-losis recurred but was corrected by a second resection. In the five cases of semi-articular humeral resection the fresult was very good in four and good in one Accordingly, the results were satisfactory in all of the cases of this group In $\eta \delta$ 5 per cent they were very good in 19 per cent good and in 4 5 per cent fairly good

The most important statistics on arthroplasty are those of American surgeons. Statistics on 126 cases in which this operation was done show good results in 75 per cent, mediocer results in 16 per cent and poor results in 6 per cent. Lever in 1025 reported eighty four arthroplastics with four poor results and two doubtful results.

From this study the conclusion is drawn that in the case of the elbow resection has proved superior to arthroplasty Audres G Morgan M D

Nussbaum J Late Results of Operation for Wry Neck (Ueber Spactresultate nach Schiefhals operationen) Bestr klin (Ar 1926 cxxxv1 573

The author discusses the various theories regard ing the etiology of wry neck and the operative meth ods for the correction of the condition

In 76 per cent of forty seven cases in which an operation with partial removal of the seternoledod mastoid muscle was done in the nenod from 1972 to 1923, subsequent examination showed a corrected posture of the head and the ability to move the head freely in all directions. In eleven cases the functional result was not entirely satisfactory. Asymmetry of the face was present before the operation in forty of the forty seven cases. In twenty four of these forty cases the face was entirely symmetrical at the time of the subsequent examination although in half of them the asymmetry had been present for from eight to seventeen years

A transverse skin incusion just above the clavide gave the most satisfutory scar. In one case there was a familial history of wry neck. The father and both children of a second marriage (transverse presentation and forceps delivery) showed the condition whereas ten children by the first wife were entirely free from it.

The author recommends bandaging to fix the head in the corrected position and the use of exer cises to overcome the scoliosis

VOI HOFFMANN (Z)

Speed J S Reconstruction Operation on the Hip J Am II 411, 1926 IXXXVII 1631

Operative reconstruction of the hip has its widest application in the following conditions congenital dislocation of the hip in which reduction is impossible or the femoral head cannot be held in the acetab

ulum after reduction paralytic dislocation associated with poliomyelitis and ununited fractures of the neck of the femur after the possibility of

bony union has passed

In these three conditions the reconstruction oper atton has for its object the restoration of stability and the preservation of motion ie the formation of a hip which will support the body weight sufficiently well to permit sitting and a reasonable amount of walking without pain or other discomfort

In congenital dislocation of the hip the indications for a reconstruction operation are the following

1 The cases of young children in which the position of the femur cannot be retained after closed reduction the shallow acetabulum alfowing the head to slide up over the rim. In such cases the recur rence of the dislocation may be prevented by turning bone down from the lateral surface of the shum to deepen the acetabulum.

2 The cases of older children in which reduction is impossible by either closed or open methods. In these a new acetabulum must be formed at a

higher level on the ilium

3 The cases of adults suffering from pain and instability of the hip. In these cases the acetabulum must be deepened with the use of bone from the

ilium

In paraly tic dislocation due to poleonyclits all operations on the soft parts have failed as the structures soon stretch allowing the femoral head to become redislocated. To keep the head from slipping out a sufficient bony support from the upper and of the acetabulum must be provided. A most satisfactory operation is that devised by Campbell portion of the socket and displacing it for about it in over the head of the femur thus extending the roof of the acetabulum.

In ununted fractures of the femoral neck opera ton is indicated when there is marked atrophy of the head with absorption of the greater portion of the neck or exessive shortening due to such marked ascent of the trochanter that the remainder of the neck, lies above the acctabulum. It is undicated also when the patient's economic status requires a rapid convalescence and the assurance of a stable hip. The operations performed in such cases, after the Access Ministerior operation in such cases, after the Access Ministerior operation. The author has found Whitman's operation the most satisfactory.

A Gertrary M D

Hey Groves E W Some Contributions to the Reconstructive Surgery of the Hip Lancet 1026 CCV1 1055

The author advocates operative reconstruction of the hip in the following conditions

r Fractures of the neck of the femur In prefer

r Fractures of the next of the femural in preference to the use of Whitman's method of reduction Groves fixes the fracture by means of a bone peg. This gives a much more certain and perfect union

Six weeks after the pegging the patient is allowed to walk with a calipper. In cases of old fractures it may be of value to employ a living bone peg taken prefer ably from the fibula. The peg is inserted bindly 1c without exposure of the joint. Slipped epiphysis should also be treated by the pegging operation.

2 Ank loss of the hp. Hey Groves advocates as a substitute for the uncertain arthrophasty some form of evusion of the head of the femur. To secure both mobility and stability after the exusion he uses the capsular ligament as an envelope for the cut neck, of the femur and cuts the excised head of the femur into two firagments and affires it to the upper margin of the acetabulum. The first procedure secures mobility and the last, stability of the head in the acetabulum.

3. Congental dislocation of the hip. Inold cases open reduction is essential. The femur is best fixed in the socket by forming a new rim to the socket by tutning down a part of the outer surface of the has bone the method most frequently used or by cutting the capsule from its attachment to the pelvis tying it around the head of the lemur gouging out the acetabulum and placing the head of the bone wrapped in the capsule in the socket and anchoring it by stitches which fix the capsule to the floor of the acetabulum.

4 Infantile paralysis affecting the hip muscles. The lost abductors may be replaced by using the tensor fascing femoris or the erector spine muscles. Neither of these muscles alone can make a very efficient abductor but when both are combined an efficient abductor of the hip is formed.

A GOTTLIEB M D

FRACTURES AND DISLOCATIONS

Mueller W The Importance of Nerve Block Anæsthesia in the Treatment of Fractures and Dislocations (Die Bedeutung der Leitungs anaesthesie luer die Behandlung der Frakturen und Luvationen) Ved Alin 1926 zur 327

At the Marburg Clinic conduction anæsthesia has been found of great value in the treatment of frac tures and dislocation in patients over 17 years of age The chief advantage of general anæsthesia the exclusion of psychic elements is of less im portance in the treatment of fractures and dis locations as this does not involve extensive surgical procedures Local anasthesia has greater advan tages It does not require emptying of the stomach and is not preceded or followed as is general anæsthesia by a stage of excitement which is very unfavorable in fractures Morcover it facilitates ray control during and after the reduction Of great importance in conduction anaesthesia is the associated complete relaxation of the muscles which lasts for several hours

In fractures and dislocations of the arm the plexus anosthesia of Kulenkampfi is induced and in those of the leg the various nerves are excluded according to the method of Lacuen The sciatic nerve is in

jected according to the method of Keppler at its point of exit from the scatte notch and the femoral nerve is injected under Poupart's ligament r cm lateral to the femoral arter. The obturator nerve is reached at the external margin of the obturator foramen, at a point one fingersbreadth below the spine of the os publs, the needle heing introduced upward and outward. The cutaneus femoris lateralis nerve is blocked according to the well known method of Nystroem by a subcutaneous injection helow the anterior superior spine of the illum

In conclusion, the author states that conduction anaesthesia should be used more generally in the treatment of fractures and disfocations. It is especially indicated if as at the Marhurg Cfine considerable importance is attached to the manner in which reduction is effected and the reduction of disfocations is not left entirely to continuous traction.

Simon R Stulz E and Lenormant, C Osteo synthesis with a Burned Prosthesis in Com plicated Diaphyseaf Fractures (De lostfosyn thèse à prothese perdue dans les fractures dia physaires compliquées) Bull et mem Soc nat de chur 1316 lui 562

In the treatment of complicated fractures by immediate osteosynthesis the authors were unable to obtain entirely normal solid union without complications in a single instance. Solidification was generally delayed the callus was often excessive and the occurrence of infection frequently made it necessary to re open the wound for drainage and disinfection. In some cases a secondary sequestrectomy was required.

Since callus results from the ossification of connective tissue which is organized around the fragments at the expense of the muscles and torn perios teum in contact: with the hemorrhagic foci, Simon and Stulz attribute delay in the formation of callus to the surgical cleansing of the fracture site—the exacuation of effused blood, the ablation of muscle tissue and aponeurous and the cleansing of the bone fragments—wherehy the conditions necessary for callus formation are disturbed. Because of these procedures only the interfragment callus is formed and this requires a long time even when there is perfect hony apposition.

The farge callus with imperfect osteogenesis is at tributed to extensive stripping away of the perios teum and the action of the metaflic prosthesis

The open treatment of fractures increases the danger of infection, ostertis and fistula formation

In support of primary osteosynthesis for compound fractures Duparer cited war methods. Most war fractures were treated by dchirdement and the use of apparatus. Depage introduced secondary closure after disinfection. In 1917 primary, suture after surgical cleaning was begun but Duval and Proct did a primary suture in only 50 per cent of complicated fractures. The method was not gener ally applicable, and even when it was followed by

primary healing did not always prevent the development of osterius. Lenormant is of the opinion that during the war, experience with primary osteosyn thesis in complicated fractures was limited and that this procedure should not be used in civil practice. In twenty one fractures of the upper and lower extremities Lenormant did a primary suture without osteosynthesis in thriteen with four serious failures (death in two cases, amputation in one), and a primary osteosynthesis in eight with four serious failures (two deaths)

With regard to the treatment of compound frac tures Lenormant cites the war procedure of Leriche. viz cleansing of the site followed by primary suture to transform the open fracture into a closed fracture and then the usual treatment of closed fracture in cluding secondary osteosynthesis if necessary This method was used also by Duval and Picot during the war However, primary suture requires a careful selection of cases a perfect technique, and close observation of the patient During the war, surgeons lived practically in the midst of the wounded and were able to note the onset of the slightest change Moreover the suturing of war fractures was done with an extremely accurate bacteriological control In the treatment of compound fractures sustained in civil life Leriche leaves the vound open after cleansing it does a secondary cutaneous suture and performs an osteosynthesis after from ten to fifteen days

Lenormant distinguishes two types of compound fractures (1) fractures with a small linear or punctate wound involving only the skin and () true compound fractures with large wounds lacer ation of the muscles and multiple spicules. The former require only disinfection of the superficial wound and the application of an apparatus as in simple fracture Healing usually results as in simple fracture In fractures of the second type Lenormant does a debridement leaving the wound unsutured applies a dressing and apparatus and sutures or performs a secondary osteosynthesis later treatment is long and tedious requires careful dress ings the devising of apparatus suitable for the par ticular case, and repeated \ ray examinations but gives the hest results

Simon and Stule believe that in compound diaphyse all fractures immediate osteosynthesis with a hurred prosthesis is contra indicated and that early second are osteosynthesis has the same indications as in simple fractures. The immediate operation should consist in surgical cleansing of the fracture site hy the removal of contused thise. For expecies and soiled fragments and the suturing of the integruments. If disinfection is complete the wound will heal by primary intention. In this manner the compound fracture is transformed into a simple fracture which may be treated as such. If necessary second ary osteosynthesis may be done on about the tenth day. In some cases plaster or continuous extension will be sufficient to obtain solid union.

WALTER C BURKET, M D

Perthes G The Results of Operations for Habit unal Dislocation of the Shoulder with Special Consideration of Our Method (Ueber Ergebnise der Operationen bei habitueller Schulterluration mit besonderer Beruceksichtigung unseres Ver fahrens) Deutsche Zitcher f Cher 1975 cett r

The outlook for a permanent cure of habitual dislocation of the shoulder is most favorable when it is possible to correct the underlying anatomical changes. The chef factor responsible for habitual dislocation is insufficient healing of the rent in the capsule received at the original injury. One of the two locations in which such a rent occurs most frequently is the region of the greater tuberosity. In this area it occurs as the result of the action of the supraspinative infraspinative and teres minor muscles. Not rarely a part of or all of the major tuber only in the supraspination off. When the muscle insertions which are torn off at the first dislocation become healed more posteroly; the muscles are no longer able to

hold the head of the humerus in its proper position The other most common site of capsular tears is the anterior margin of the glenoid cavity. Not rarely a portion of the limbus or even of the bony margin of the glenoid cavity is torn off Under such circumstances the head of the humerus loses its grin anteriorly and glides over the anterior surface of the neck of the scapula Not rarely a wedge shaped depression is found in the head of the humerus posterior and internal to the greater tuberosity This is the result and not the cause of the habitual dislocation. It is produced by the pressing of the head of the humerus against the antenor edge of the glenoid fossa Free bodies in the joint are not un common The only treatment of these cases is

surgical A skin incision is made at the anterior margin of the deltoid muscle beginning at the coracoid proc ess and perpendicular to this an incision of the acromion is made. In the plane of the latter meision the anterior portion of the deltoid muscle is cut The joint capsule then lies freely exposed The cap sule is opened by a longitudinal incision made in the intertubercular sulcus. At the upper end of this incision a transverse incision is made either anterior ly or posteriorly The joint cavity is then palpated In rupture of the capsule at the greater tuberosity the posterior portion of the capsule is found to be The end of the retracted muscle is very wide grasped and drawn out and after external rotation of the arm is fixed in position with wire

In rupture of the capsule at the inner edge of the glenoid castly the finger reaches over a bony ridge into an accessory cavity of the joint in front of the neck of the sceptual. To render this region more accessible the auscles arising from the coracoid process are temporarily displaced by chiscling off the joint feet coracoid process. This is pulled inward and downward with the pectorals minor the coracoibrahils and the short head of the beeps the anterior surface of the joint capsule being there by rendered more accessible. When the capsular

measion is lengthened anteriorly, the anterior num of the glenoid cavity is well exposed and the en trance to the diverticulum in front of the scapula is made visible. Then, with a loop of wire passed through the rest of the anterior margin of the glenoid cavity the joint capsule is fixed to the inner margin of the glenoid cavity. This having been done the capsular incision and the coracoid process are sutured.

After the operation the arm is bandaged for four teen days first in right angled abduction and then in abduction at an acute angle. Three weeks after the operation motion hot air treatment and massage are begun Clinical care is given for about two months

In else m cases so treated there were no recurrences. In four cases the period of observation was ten years and in three it was less than three years in all of the cases the patient regained good function of the shoulder and complete use of the arm. The period required for the return of free motion of the shoulder ranged from three months to one and a half years depending chiefly upon the zeal of the patient.

Rupp F A Simplified Operative Procedure for Habitual Dislocation of the Shoulder (Ueber en verenfachtes Operations erfahren bei habitueller Schulterluxation) Deutsche Zischr f Chir 1926

The intracapsular portion of the bicens teadion begins at the upper margin of the glemod fossa and extends in an arched course over the head of the binnerus. When the tendon becomes tease the semi-circular arch tends to become flattened when the arm is raised. This causes considerable pressure on the head of the joint which under pathological coaditions such as those present in habitual dislocation of the shoulder may be sufficient to displace the head from the fossa.

The new operative procedure described by the author is based on these anatomical considerations and the findings of experiments performed on cadavers. The sheath of the bicrops is split in the salicus and the tendon on each side is sutured with silk to the perosteum and bone. This results in functional exclusion of the intracapsular portion of the bicrops tendon and the prevention of pressure on the head. In the one case which has been operated upon in

this manner there has been no recurrence of the dis location for nine months

BLOCK (Z)

Mackenzie J F A Simple Method of Treating Fractured Clavicle Med J tustralia 1926 u 485

In the treatment of fractures of the clavvice Mackenze puts the pattent to bed brings the affect ed side to the edge of the bed and allows the arm of the injured side to hang straight down toward the floor. This position is maintained for four hours. Then for the remainder of the treatment the patient is allowed to rest his elbow on a pillow on a chair heside the hid in an easy position but yet with some slight drag on the shoulder. Two cases are reported, one that of a man 65 years of age and the other that of a young male adult. In both, the treatment gave immediate relief from the pain and an excellent result.

The author states that he has never had a failure with this method and has used it for years

FRANE G MURPHY, M D

Roux Berger J L Fractures of the Humerus and Radial Paralysis (Fractures de I humérus et paralysis radiale) Bull et mém Soc nat de chir 19 6 lii 551

In an aviation accident an army officer sustained an oblique fracture of the middle of the humerus with marked displacement and complete radial paralysis. Attempted reduction gave a mediocre result and ciid not affect the paralysis. Eight days after the accident, Rouv Berger exposed the fracture and nerve hy an incision along the external bicipital groove. The contused but unsevered radial nerve was found tensely stretched over the displaced lower fragment. Reduction was effected easily and was maintained by a wire. Solid union resulted and movements re appeared in the region of the radial nerve in about two months.

A young woman sustained a fracture of the middle of the humerus in an automobile accident. Tentative reduction was effected. For ten days the patient had considerable pain. On the twelfith day radial parally sis developed. On the twelfith day radial parally sis developed. On the twentich day an electrical test showed a reaction of complete degeneration. The Yary revealed a sharp point on the lower fragment. At operation on the twenty fifth day the nerve was found pierced by a bony spicule on the lower fragment. The nerve was freed the point smoothed off, and a flap of muscle interposed between the nerve and the bone. No osteosynthesis was done. The fracture united without complications. Two months later movements of the wrist were possible and thereafter became continuously better.

Although spontaneous recovery might have occurred in the first case the author regards it as in advisable to leave a radial nerve stretched on the cutting edge of a bony ridge. Verification of the condition of the nerve does not necessitate osteo synthesis. Schwartz prefers operative verification of the condition of the radial nerve after union of the fracture, but Roux Berger emphasizes that oper ation is much easier and more efficacious when per formed soon after the accident

WALTER C BURKET M D

Clayton C F Fractures of the Forearm South

M J 1926 xx 798

Fractures About the Elbow South
M J 1926 xx 806

CLAYTON reviews the surgical anatomy of the forearm and discusses the mechanism and diagnosis of common fractures. He describes and shows by

illustrations two simple splints which can be used in the treatment of practically all forearm fractures, one to be employed when the immobilization and traction are to be made in the mid pronation position, and the other when they are to he made with the arm in full supmation

For cases in which both bones are fractured he recommends immobilization of the wrist and elhow with the elhow in a right angle position. In all fractures of both hones with displacement and all fractures of one bone with overriding, continuous traction with immobilization is indicated.

Fractures of the upper third of the ulna with dis location of the radial head should be put up us supmation, while fractures of the ulna with displace ment of the fragments toward the radius should be treated in mid pronation

Clayton emphasizes the importance of perfect anatomical restoration in Colles fractures, even when they are impacted and must first be broken up He treats them with the wrist in flevion, and in severe cases uses also full promation and ulnar deviation. In cases of fracture of the shafts of bones be immobilized in mid pronation.

Venable treats his cases of fracture of the olecranon by placing the arm in a simple sling with the elbow at a right angle until the soreness has subsided. He then encourages the use of the arm Fibrous union of the fragments will transmit the pull of the triceps muscle. Bony union has resulted in his cases even when apposition of the fragments has not been obtained.

In cases of other elbow fractures Venable immo bilizes the arm in flevion and allows active motion of 5 or 10 degrees on the third or fourth day. He believes that the treatment of elbow fractures should be standardized by the grouping of types and suggests a classification which he has found of value. Christics C Guy MD.

Haumann End Results of Vertebral Fractures (Enderfolge der Wirbelbrusche) 50 Tag d deutsch Ges f Chir Berlin 1926

Because of the mining activities in the vicinity, the hospital of Bochum in Prussia receives a very large number of cases of vertebral fracture. In a period of five years it admitted 201 cases of this Lind, not including fractures of the transverse proc esses One hundred and thirty of the patients died soon after the injury. In the majority of the cases the upper lumbar and lower thoracic vertebræ were affected In decreasing order of their involvement, the injured vertehræ were the first lumbar vertehra the second lumbar the twelfth thoracic, the third and fourth thoracic and the eleventh thoracic The spinal cord was injured in 94 4 per cent of the fractures of the cervical vertebrae in 50 9 per cent of those of the thoracic vertebra, and in 429 per cent of those of the lumbar vertebræ The total incidence of spinal cord injury was 62 2 per cent

Haumann emphasizes the importance in the diag nosis of an \ ray examination in two projections

Errors in the diagnosis are most frequently due to

omission of this precaution

In the cases reviewed the treatment of the frac tures was purely conservative. Usually it was found sufficient to keep the patient flat on his back with a wedge shaped pillow under the site of the fracture Fractures of the cervical vertebra were placed in a Glisson sling. Movement and physic therapy were begun as soon as possible. The aver age length of time the patient remained in the hos pital was nine and nine tenths weeks. No plaster of Paris or supporting corset was applied The Henle operation was performed in only a few cases Pa tients with transverse myelitis remained in compara tively good condition for a relatively long time (up to five years) in spite of rectal and bladder paralysis and paraplegia. There was no meningitis. In un complicated fractures the prognosis was favorable Twenty four and five tenths per cent of the patients nereable to work after two years 37 2 per cent after three years 61 1 per cent after five years ,6 per cent after seven years and 80 per cent after nine years Permanent compensation was allowed in s per cent of the cases and a settlement was made in 10

In the discussion of this report KOENIG empha sized the value of such a summary of the end results of treatment. He stated that he was surprised at the early discharge of the patient and the early date at which movement was resumed. For fear of later deformity he has his prittents were a correct

KRAUSF discussed the severe pain after transverse injuries of the spinal cord. In a case of this kind he stopped the pain by severing the spinal cord at the site of the injury with the Jaquelin cautery.

KOERTI reported that he had known of the occur rence of healing of the injured spinal cord only in fractures of the lower lumbar vertebre

HENJE recommended chordotomy for the relief of the pain discussed by Krause He described measures of a technical nature to prevent rujury of the pyramidal nibers. He performed a chordot omy in two cases of stump neuralgia with good results.

VON HONEKSTER emphasized the importance of great care in the diagnosis of transverse lesson. Three years ago he performed a laminectoms on the first jumbar vertebra in a case in which such a diagnosis had been made and found the lumbar sac tensely constricted at the site of the injury. Her removal of the obstruction the cerebrospinal fluid flowed bladder paralysis had dissipatorial. Today three years after the operation the patient is able to go about on crutches.

KUEMMEL also stated that he always performs a laminectomy before considering section of the cord Sometimes this is followed by improvement as there is no transverse lesion as was at first supposed

In conclusion Haumann street that the period of rest has gradually become shorter Today the period of rest in bed is no longer than six weeks. The pr

tient is then allowed to get up and physiotherapy is begun as soon as possible Stettiner (2)

Jackson A A Fractures of the Peivls Intrnat

J Wed & Surg 1926 vvvv 381

Jackson reports six cases of pelive fracture and discusses the treatment. The treatment is rendered difficult by the damage crused by the fragments. In complicated pelive fractures early surgery is neces sar, to save life. In about 60 per cent of the cases the bladder and urethin are involved to a greater or less extent and in some cases there is hereation of the pelive tissues with injury of the blood vessels and nerves.

In the treatment of pelvic fractures an a eptic technique is essential. Extraperitoneal bladder rupture is obviously less dangerous than the intraperitoneal type but in both conditions the aperture must be adequately sutured.

KOBERT V FUNSTON M D

Harding M C Os Calcis Fractures A New Method of Reduction J Bone & Joint Surg 1926 vin 720

To effect the reduction of a fractured os calcis the posterior end of the heel must be drawn down so that the weight will be borne on the tuberosities and not on the fracture line the anterior end of the heel must be pushed up to restore the arch and the broadening of the heel must be corrected.

The knee is flexed over the end or side of the table and a sharp claw retractor is driven into the shin at the back of the heel. This gives traction at the most advantageous point. It is never necessary to cut the tendion of Achilles. Three points of counter pressure are provided On a stool with a screw top a trangular wooden wedge is placed and the stool screwed up until the wedge presses firmly into the foot at the calcaneousbond joint. Harding then sharply bend the forefoot down with one hand while with the other he pulls down the retractor until as much correction is obtained as its desired.

In the next step of the procedure a cabinet makers D champ is applied to the sides of the or calcis the pressure points being protected by felt or rubber and the clamp is screwed in alon's until the width is the same as that of the opposite heel which is tested by removing the clamp and applying it to the other heel. Pressure is made at several points for a short time. When the clamp is well screwed in it may be used as a Thomas whench

Following the reduction a plaster of Paris band age is applied with the foot in the corrected position. Il desired the clamp and retractor may be left in place until this is done. The plaster is pressed firmly against the side of the beel while it is setting and the cast is left on lor about three weeks. Full weight bearing is not allowed for three months. A felt arch is then used to give some support.

Fifteen cases of fracture of the os calcis have been treated by this method. In two of them the condition was bilateral. All of the patients are now at work The average time of disability was only five RUDGLPH S REICH M D months

ORTHOPEDICS IN GENERAL

Puch W T C Orthopedics at a Country Chil dren s Hospital Proc Roy Soc Med Lond 1926,

TT 131 The author discusses the treatment of tuberculosis

of the hip and spine Most of the beds for cases of poliomyelitis at Carshalton, England are used for cases in the second stage of the disease which begins with the cessation of tenderness and lasts until the condition becomes

stationary, perhaps as long as two years It is during this stage that stretching and fatigue of the muscles must be avoided and deformity prevented Splint age heat and later muscle training are very essential during the first year Since the number of cases about London is not too great this treatment can be given better in an institution than in an out patient department With regard to the treatment of spinal tuberculosis

the author stresses the danger of too brief recumb ency which may be followed by deformity He calls attention also to the deformities, such as equinus deformity and genu recurvatum, which may result from recumbent treatment without proper super

Pugh bas developed his own appliances and car mages for the treatment of recumbent cases These facilitate the nursing care and heliotherapy, permit exercise of the arms, legs, and lungs, and render it unnecessary to confine the patient to the boundaries of the wards

The Lyphosis associated with tuberculosis of the some the author corrects by creating compensatory curves above the deformity if it is low in the spine below it if it is high, and above and below it if it is in the mid dorsal region. After the period of recumb ency has passed be applies a celluloid jacket which can be enlarged as the patient grows

With regard to the treatment of tuberculosis of the hip Pugh agrees that the early application of effective traction and heliotherapy to both probable and definite cases would lessen the number of seri ously damaged hip joints General thickening about the joint and sinuses is indicative of a poor result so far as movement is concerned. In the early cases with pun and even those with localized abscess formation, Pugh produces traction of the body weight by raising the foot of the bed or elevating the mattress on a fracture board

FREDERICK A JOSTES M D

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Campbell J L Fascial Bands in the Treatment of Aneurism South If J 1926 xix 705

Prior to the use of strips of fascia lata in the treat ment of aneurism metal bands were employed but were found impractical because of erosion. The author describes his modification of Anel's opera tion

After exposing the vessel he passes a strip of fascia around it and fixes the strip with a mattress suture of No 1 chromic catgut In the introduction of the suture a careful estimate is made of the amount of pressure that is required to secure the occlusion necessary to control the flow of blood into the aneurism and distal parts The margins of the fascia are then approximated by catgut sutures and the long end of the fascial strip is carried over the line of sutures and secured by lateral statches

This procedure is preferable to simple ligation as it is associated with less danger of secondary hemorrhage A silk or catgut ligature may cut through whereas the fascial band instead of injur ing the already diseased vessel tends to strengthen it by forming an extra fibrous band around it

The procedure is not intended to replace the Matas operation when the latter can be done

RAYMOND GREEN M D

Colp R The Treatment of Pylephiebitis of Ap pendicular Origin with a Report of Three Cases of Ligation of the Portal Vein Surg Gynee & Obst 1926 Intu 627

The prognosis of pylephlebitis complicating acute appendicitis while grave is not absolutely hopeless If the diagnosis is made before operation, the surgical procedure of choice is ligation or preferably resection of the ileocolic vein prior to the appendec

If the complication occurs or is recognized after operation surgical intervention is of little avail unless indications point to a definite liver abscess when drainage is indicated

In certain persons the bepatopetal system can efficiently carry on the portal circulation in the presence of a portal occlusion of pylephlehitic origin

The ligation of the portal vein in cases of pyle phlebitis proved of no value Because of the peculiar nature of the condition at is very doubtful whether this procedure is ever indicated. If the process has already extended beyond the ileocolic ligature there is still no need for portal ligation since recovery occasionally occurs when all of the primary thrombus bas not been removed HOWARD A MCKNIGHT M D

BLOOD TRANSFUSION

Considerations of the Problem of Blood Clotting im J If Sc 1926 clyus sor

In a paper which gives as briefly as possible his ideas concerning the process of blood clotting the author submits the following tentative equations

I For tessue fibringen clottine

Blood fibringgen +Ca+tissue fibrinocen-Cephalin Prothrombin fibrin s e

blood fibrinogen protbrombin

١ Ċa + thrombiu s e Ca tissue fibrinogen cephalin

2 For thrombin clotting

Blood fibrinogen] minus blood fibrinogen (re moved as fibrin by throm Cephalin Prothrombin bin or tissue fibrinogen) ---cepholin + prothrom

Cepholin + prothrombin + Ca-thrombin This reaction is reversible the thrombin being very un stable The antithrombic proteins take up the cepbalin dissociated from the prothrombin union

Antithrombin Antithrombic proteins + cepbalin cephalin

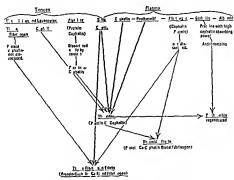
This reaction is not reversible therefore with this and the preceding reaction going on in the same solution all of the cephalin must finally be bound to the antithrombin However a the last reaction is much slower than the preceding one the addition of cepbalin to the serum results in thrombin forma tion at once this being followed more slowly by the deviation of the cephalin from the thrombin to the serum antithrombia (See chart)

The article is summarized as follows The main conflicting theories of blood clotting are brought into barmon; by the data and discussion presented in this paper and in other papers re

ferred to 2 Howell's work on antithrombin is confirmed 3 The direct activation of prothrombin by

cephalin and calcium is substantiated 4 A complete theory of blood clotting involving both tissue fibringen and thrombin clotting is presented It incorporates and harmonizes the best work of the past on this question

MORRIS H KAILS M D



Mills -- Considerations of the Probl m of Blood Clotting

Higgins, C C The Influence of Various Factors upon the Hæmagglutination of Red Blood Corpuscles Am J M Sc 1926 clxxii 510

Hamagglutination in vitro is influenced by various factors. Changes in temperature have perhaps the most marked effect.

In the grouping of blood samples the temperature of the room should not be excessively elevated as this will delay clumping

Narious gases have a definite effect on hæmaggluti nation either prolonging it or tending to hasten it The effects of nitrogen, oxygen, carbon monoxide, and hydrogen are discussed

Morris H Lahv MD

Samson Himmelstjerna H V Hemophilia and lts Etiological Treatment Med J & Rec 19 6 cxviv 320

The author attempts to explain something about hemophila. He assumes that there is formed in the wounded tissue of a bemophiliac a substance similar to that in normal blood which prevents clotting although this substance is not found in the hemophiliac is blood. The internal organs bleed only rarely in bemophilia. The escape of thrombokinase into the blood is deficient.

In severe cases with bleeding from a wound, the hamorrhage can be stopped by the injection of alien blood. Alien blood exerts a powerful influence upon the production of thrombokinase. In less severe cases the stimulus from the loss of blood will produce at least a neutral intermediary stage and thus control hamorrhage in the affected tissues.

The author assumes therefore that in the tissues affected by the bæmophilia there is not only a deficiency of the thrombokinase but also the presence

of a substance which does not allow the thromboki nase of the escaping blood to become effective at the surface

The tassues of a hamophilac are affected in various degrees of severity. While the hamorrhage will often cease extravascular coagulation is retarded. There may be enough thrombokinase to stop the bleeding in the vessel but not enough poured out with the blood to produce clotting

The author believes that the 'conserving sub stance" which prevents clotting may injure the blood vessels and the injury may persist for a long time after the disappearance of this substance

Mountainous and tropical climates produce definite improvement in bleeders probably because of the solar irradiation in such climates. Quartz lamps may therefore be beneficial in hæmophilia.

The injection of alien blood does not necessarily raise the thrombokinase percentage of a hæmo philiac's blood but produces a shock condition which gives at least a neutral intermediary stage allowing the occurrence of coagulation

The results of roenigen uradiation of the spleen must also be considered an effect of shock therapy. A mass of thrombolunase must be liberated but it is the 'sbock from the large amount of the destroyed blood cells that produces the clotting action

The force that produces the spontaneous periods of improvement is still unknown. As females are not affected, it is probable that they have a protective substance which prevents the activity of the so called conserving substance. The author has tried the oral administration of ovarian extracts on immself without deletenous effects and believes that experiments are warranted in the use of these extracts on barmophiliacs. Maccus II Hobary M.D.

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Moynihan Sir B Before and After Operation

Lan et 1926 cert 789

L

has been phenomenal I resent day surgical tech nique is such that it can hardly be improved upon, but improvement is still to be looked for in methods First we should teach the sick to seek medical

advice earlier in order that treatment may be given before the condition becomes incurbile and in order that needless suffering may be prevented. Chrome gastne and duodenal ulcers can be prevented from perforating by surgery. Cholichthaiss can be relieved carrier. Every accessible cancer is at first curable. A greater number of cases of cancer are operated upon today than formerly but many are first seen in the late stages. The latty must be taught to seek treatment for conditions which they have long regarded as trivial or hive ignored

Secondly we should make greater efforts to im prove the chances of the patient before operation and to help him after operation. Before surgical operation is undertaken we should be sure that mechanical treatment is necessary and more advisable than medical treatment that the patient is in the best possible physical and mental condition to undergo an operation that the procedure employed is the best procedure for the condition found and that proper proviperative care will be given.

In many conditions such as chronic gastric and duodenal ulcer recurring after medical treatment and cholclithinsis with complications surgery is far

safer than medicine

One of the most valuable procedures for lessening the risk of operation is blood transfusion. This may be used both before and after operation. The truns Iusion of 15 02 of blood a few days after a gistret, tomy for carinoma or jequinal ulcer may greatly in

prove the prognosis

Before the operation the patient should be en

couraged to drink as much fluid as possible for a day or two \(^1\) spec cent glucose solution is best \(^1\) as a rule a single evacuation of the intestine the evening before the operation is sufficient. If fattlenders is more common in patients who have been purged than in those who have not been purged. \(^1\) Aprentice neems to estimate the extra transfer of the properties of the rectal true is bould be substituted for catharties.

Blood examination is of importance Chloroform is a dangerous anasthetic the ruthor has not used it for years. One of the most scrious postoperative conditions is acidosis. This is best combated by the intravenous administration of a 5 or 10 per cent elucose solution with or without sodium bicar.

bonate During the past two years the author has been giving insulin with the glucose either intra venously or hypodermically. Carfell blood examination and proper treatment with glucose and insulin will render operation as safe for diabetics as for other patients. In diabetes great care must be taken to prevent infection of it is present it must be treated active.

Alkaloss is more rarely a cause of anxiety. It may occur also in gastire disorders in which free hydrochloric acid is diminished and in hyperpace alice to increased pulmonary ventilation with excessive loss of cirbon dioride. It is best treated by the intravenous administration of saline solution every eight hours. A weak hydrochloric acid solution may be beneficial.

Blood examination is of value also in choleithnass and gento urinary disclass. The choleiterol and urea content of the blood may show a need for pre-liminary measures before the operation. Pre-op-erative preparation is of value especially before suprapuble prostatictoms. A blood tr institusion may so ruse the cholesterol content as to strengthen the patient against infection.

In jaundice in which the bleeding used to be such as almost to contra indicate operation the coagula tion time can be shortened by the administration of firshly prepared rabbit serum in doses of 20 c cm repetated twice or three times. Five cubic centimeters of a 10 per cent calcium solution given intravenously

on three or four consecutive days before and after operation has a similar effect

In dangerous postoperative comiting early execution of the stomach by the stomach tube and lavage will give relief. A tube passed through the mose may be left in the stomach for days for syning aspiration. In cases of high fever the introduction of the water into the stomach causes the stomach to act as an ice bag beneath the heart with some benefit

In conclusion the author emphasizes that operation is only one incident in the treatment and that pre operative and postoperative care may be necessary for an indefinite period.

MARCLS II HOBART M D

Tinker M B and Sutton II B Inefficiency of Most of the Commonly Used Skin Antiseptics J tm M Ass 19 6 INVVII 1347

The authors recently sent out a questionnaire to surgeons asking information as to the antiseptes they used in their practice and their opinion of the results obtained. The replies indicate that there has been bitle advancement during the past fifteen years along this bine. Many of the surgeons who replied

to the questionnaire were entirely satisfied with their technique and results although 70 per cent still use

iodine for skin sterilization

Tests in the laboratory were made to determine the relative efficiency of the standard antisepties and their value under different conditions. Tests were made of their effect in surface sterilization, their penetration, and their effect in the presence of blood Strips of rubber gloves were dipped in cultiures of the organisms to be tested permitted to dry immersed in solutions of the various antisepties and again per mitted to dry. Cultures were then made to deter mine whether living bacteria or spores were present

The best results from these tests were obtained by the use of 5 per cent neutral acrifiavine and gentian violet in 50 per cent alcohol The poorest results

were obtained with jodine

To determine the degree of penetration of antiseptics cultures of bacteria were smarted over the skin into folds, and under the finger nails and scrapings were carefully taken with the use of an aseptic technique and stained deeply with a number of antiseptics such as alcoholic and benzein ordine, trinitrophenol. Harrington's solution a 5 per cent solution of mercurochrome, acrifavine, and 5 per cent neutral acrifavine and gentian volet in 50 per cent alcohol and lime and soda paste. Only two, the lime and soda paste and acrifavine and gentian violet preparations, showed no cultures. The nodine preparations gave cultures in every case. Dichlor amine kills surface bacteria, but has no influence on the deeper ones. In the tests of the efficiency of antiseptics in the presence of blood the best results were obtained by the use of the acriflavine preparations

The results were the same whether the preparations were used in weak aqueous solution or werk or strong deoholic solution. Although first introduced in 1886 the amiline dyes have never come into general use for skin disinfection. They have been employed for years in certain conditions in which penetration is unusually difficult as in eye ear, nose and throat conditions, and infections in joint cavities, and occasionally in chronic infections of the chest.

The majority of the answers to the questionnaire showed rather uniform satisfaction with the preparation and technique used, but it was noted that many of the largest clinics and hospitals occasionally have an outbreak of skin infections with an occasional death. In the fatal cases the causative organism was the streptococcus bemoly tirus, the tetanus bacillus,

and the Welch bucillus

Actilavine is an expensive preparation, but if employed carefully is the best preparation for general use. Three or four drams of 1.5 per cent solution applied to the skin with a swab is usually sufficient to sterilize the skin for the ordinary operation. Improvement in skin sterilization depends upon thorough teaching of the subject to medical students and nurses by means of laboratory tests of the relative efficiency of antiseptics under different conditions more careful technique in hospital and private work, and better co operation between practitioners and laboratory workers

HAROLD M CAMP M D

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Holzknecht G Increasing the Effect of the Roentgen Rays by Means of Intravenous In jections of Dextrose (Zur Verstaerkung der

Roentgenwirkung mittel t intravenoeser Dertrose injektion nach E C Mayer) Acta radiol 1926 v 561

This is a report of observations made by the author and others of the effects of intravenous in jections of devirous according to the method of Mayer on the sensibility of cartanoma to reenigen treatment. It was found that when such injections were given a much larger number of patients were benefited by the rays and the favorable effect was obtained quickly. Other methods so far tred to increase the sensibility of carcinoma to the roxingen rays have bad no noteworthy effect.

RADIUM

Cutler M Comparison of the Effects of Unfiltered and Filtered Radon Tubes Buried in Rabbtt Muscle 1m J Roenigenol 1926 vol 535

Cutler reports the results of a study of the effects of filtered and unfiltered burned radium emanation upon normal tissue. For this purpose the lumbar muscles of the rabbit were used. The various gland gold tubes were burned in the center of the dorsal muscles. Gross etamination of fresh sections cut perpendicular to the tubes were made.

perpendicular to the tubes were made.

The use of here tube applicators resulted in three zones of reaction about the tube a central dull gray homogeneous area a middle white opaque firm area and a peripheral zone of hyperamia. The size of the lesion varied according to the initial intensity of the radon. When gold implants were used two zones appeared a central white opaque zone and a hyper amic peripheral zone. The latter was indistinct if more than a oz mm filter was used. Histologically the central zone consisted of an area of complete or cascation necrosis with complete fragmentation of nuclei the middle zone showed partial or coagulation necrosis without fragmentation of nuclei and the zone of hyperamia a marked accumulation of intra vascular and extravascular holod.

With constant millicurie value the more the filter the less the necrosis. With a constant filter the greater the millicurie content the greater the necrosis. The article contains photomicrographs tables and complete data regarding the experimental work. The following conclusions are reached.

The extent of necrosis depends upon the initial millicurie value and the degree of filtration

2 Unfiltered radon causes an intense reaction with complete necrosis, while filtered radon causes a less intense reaction with less necrosis The necrosis is partial rather than complete

3 During the process of repair there is a fibrous contraction of the lesion from the periphery with calcification of the central zone

A JAMES I AREIN M D

MISCELLANEOUS

Rothman S Principles of Modern Light Therapy Best J Radiol 1926 xxx1 443

Local treatment with hight to given to obtain the direct effect of the light on the skin. In general treatment with light reliance is placed on the indirect action of the light on the internal organs and their functions.

It is the author's opinion that in general treatment with light the action of the light is transmitted to the interior of the body through the agency of the in voluntary pervous system this resulting in sym pathetico hypotonia The blood sugar blood pres sure and sugar tolerance are reduced. The sympathet ic nerve endings in the skin are paralyzed and as the skin reflexes are wanting there is a general de pression of activity of the entire involuntary nervous system This general depression of sympathetic tone may explain some of the focal reactions seen in tuberculous patients Because of the paralysis of the nerve endings and the neuroparalytic vasodilatation the diseased organs are more fully irrigated with blood Dermatitis introduces into the treatment of tuberculous patients an element of considerable danker for in tuberculosis the focal reactions after even a light dermatitis are quite unaccountable and often very serious

By local treatment the attempt is made to produce a rapid and acute ervthema with marked hyperemial or exen an exdematous condition. The chief thera peutic effect of this is the flooding of the tissues with arterial serum. The author does not use Kromayers method of compression because he does not believe that it causes the rays to penetrate any further and the ensuing reaction—inflammation and engorge ment—always extends deep cough of itself.

Light has a remarkable influence on the process of keratimization. Use is made of this fact in the treat ment of such skin diseases as psoriaus acre vulgars archiposis lichen ruber and chronic exema the basis of which is some anomaly in the process of keratimization. Ultraviolet light has a marked effect in stimulating the basis cells to profiferate. This the germinative effect of light is made use of in the treat ment of torque dvaricose ulcers. Y ray burns and certain forms of alopecia. In these conditions also it is best to avoid too strong stimulation.

LIEWELLYN R LEWIS M D

MISCELLANEOUS

CLINICAL ENTITIES GENERAL PHYSIO-LOGICAL CONDITIONS

Mitchell L J C A New Method of Treatment of Chilblains Med J Australia 1926 11 449

The true nature of chilblains is not understood, but it is evident that in this condition there is a vaso motor disturbance of a patchy character method of congesting the parts should give rehef The author formerly produced Bier's hyperæmia hv applying a few turns of a 21/2 in rubber hand just below the knee or elbow Relief results when this is worn for twenty four bours

After reading McClure's article on the treatment of chronic ulcer hy direct clastic pressure, Mitchell applied this principle to chilblains. The results were excellent. Thin pieces of rubber of the weight of medium rubber gloves are used in strips of tuhing 34 to 1 in wide. These are applied over the affected parts and can be worn on the leg even during walk

In the treatment of the bands, firm fitting ruh her gloves are worn at night only The condition is relieved instantly. After a few days the part is normal except for slight desquamation. If the skin is broken, boracic powder and a sterile dressing should be applied under the rubber band

MARCUS H HOBART, M D

Judin S S Illo Abdominal Amputation in a Case of Sarcoma Recovery Pregnancy and Birth of a Living Child Surg Gynec & Obst 1926 xliu, 668

In the case reported spinal anæstbesia was induced with 2 c cm of 5 per cent novocain. In the abdom mal amputation, great care should be taken not to injure the site of insertion of the rectus abdominis and the corpora cavernosa of the penis or chtoris which if cut, may cause a very severe hamorrhage

If the tumor has not reached the edge of the sacrum it is necessary to cut the ilium from the sciatic notch upward instead of severing the pelvis in the synchondrosis. In order to keep the trauma minimal a wire file should be used for this purpose instead of a chisel and hammer. The cutting of the sacral nerve plexus causes a severe shock. This can be prevented or at least diminished by injecting 10 per cent novocain into the bared roots before the section is done JOSEPH K. NARAT, M D

Biair Beil W Liverpool Cancer Research Organi zation The Nature of Malignant Neoplasia and Treatment of the Disease with Lead Brit

M J 1926 n 919
Lewis W C M Some Physicochemical and
Biochemical Aspects of Valugnant Neoplasms Brit M J 1926 11, 920

Dilling W J Some Pharmacological Effects of Lead Brit If J 1926 11 924 Wood F C The Action of 6

The Action of Colloidal Lead on Animal Tumors Brit M J 1926 n 928 nn E E Histological Changes Found in Glynn E E

Cancerous Tissues Treated with Colloidal Lead Suspension Brit M J 1926 11 928 Cunningham L The Clinical Effects of Lead in

the Treatment of Malignant Disease Brit M

J 1926 11 931 or Bell W Some of the Views and Work of the Blau Bell W Liverpool Cancer Research Organization Brit

W J 1926 11 934 BLAIR BELL states that he has organized his cancer

research into a systematized and departmentalized investigation under university auspices and that it includes physicochemical biochemical, pharmaco logical, histological, and clinical studies of the properties of lead and its effect upon animals and malignant tumors

The starting point was the toxic action of lead on the chorion, producing lead abortion, and the analogy between the chorion, an embryonic cell and the malignant cell As the two cells are similar, it was believed that lead would he toric to malignant neoplastic tissues

LEWIS discusses the physicochemical character of malignant neoplasms Cancerous tissues freshly removed from the body have a higher electrical conductivity than normal tissues. This increased conductivity necessarily means increased permea bility which is a definite characteristic of malignant

In a study of the substances concerned in the maintenance of permeability it was found that in actively growing malignant tissues the calcium con tent is low A high calcium content tends toward the formation of an emulsion of water suspended in a fat emulsion which has scarcely any conductivity and permeability When the calcium content is low, the water predominates, fat droplets are suspended in it and the conductivity and permeability are high Hence, when calcium is deficient high conductivity and permeability are to be expected

Lecithin is an emulsifying agent which favors the formation and maintenance of an emulsion in which the oil is dispersed in water, a mixture of high permeability Cholesterol favors the reverse type of mixture with a low permeability tissues and chorionic villi have a relatively higher content of lecithin than of cholesterol

In a study of the blood, no noteworthy change in the hydrogen ion concentration of the whole blood of patients with cancer was found, but the blood from a chicken's wing which was the site of a sarcoma, contained no more lactic acid than the blood from the opposite wing

Enzyme activities have also been investigated Increased permeability is favorable to the transport of enzymes and their products and should favor tissue digestion Glycolysis the conversion of carbohydrates into lactic acid is the only cell process in which cancerous tissue diverges from normal tissue. While this process is generally characteristic of growing tissues it is the predominant cell process in malignant tissue. It yields more energy than is yielded by proteolysis or lipolysis

The most outstanding characteristic of malignant growths and of the chorion is their capacity to infiltrate neighboring tissues. The collagen fibers of the connective tissue show imbilition and greatly increased numbers of elastic fibers due to hydroly tic decomposition of the collagen. The only reagent which causes changes in collagen analogous to those caused by malignancy is lactic acid. The glycolysis predominant in malignant tissues produces con siderable lactic acid This diffuses into the connec tive tissue below eausing the changes which favor infiltration

DILLING states that lead has a specific toric effect on embryonic and rapidly growing tissues Lead colic is due to the local action of lead on the muscu lature of the bonel peripheral to the nervous system Lead constipation is produced by small amounts of lead which decrease the movements of the intestinal musculature The resulting sluggishness permits greater absorption of water and inspissation of the

intestinal contents Colics are produced by larger amounts of lead

which are probably released from storage in the tissues by increased hydrogen ion concentration in the blood

Lead has a similar effect upon the uterine muscula ture Small doses weaken the muscular tonus and larger doses cause powerful contractions abortions are due chiefly to the action of the lead on the musculature but also to its tone action on the embry onic cells

Wood reports that when white rats with eareinoma are given sublethal injections of lead the tumor first becomes intensely congested and later cedematous as the result of the thrombosis of a number of the vessels within it Necrosis then ensues. In a few instances there is final absorption but as a rule recurrence takes place The effect of such injections is due chiefly to thrombosis and only secondarily to the direct toxic action of the lead on the tumor cells It cannot be assumed that extensive thromboses are so frequent in man but the pain which follows lead treatment in clinical cases may be due to more limited thromboses

In animal tumors colloidal lead in subjethal doses produces profound changes which in a small percentage of cases lead to a permanent cure However the dose necessary causes serious though not irreparable changes in the liver and blood forming organs. The lead is removed rapidly from the circulation being absorbed by and therefore damaging the capillary endothelium chiefly in the tumor Thrombosis occurs only in the tumor The lead thus fixed in the neoplasm exerts its toxic effect on the neoplastic tissues

GLYNN states that colloidal lead causes abortion by causing congulation necrosis of the trophoblast This necrosis develops within two or three days after its administration Necrosis occurs also in animal tumors within two or three days. Patients with malignant disease complain of pain in the region of the neoplasm within a few hours after the intrave nous injection of the fead The pain may continue for three or four days There is swelling for two or three days followed by rapid diminution which is most marked in the first ten days

For the determination of the effect of lead on cancerous tissue the tissue must be examined within the first two or three weeks following the injection since after that length of time the regressive changes

common to all malignancies occur

In a case of ulcerating cancer of the breast the cancer cells disappeared following lead treatment In other cases of cancer there was histological evidence that the lead had increased the regressive changes which usually occur in malignant neonlasms In a case of adenocarcinoms of the ovary it so checked the rate of growth of the neoplasm that when the tumor recurred in the pelvis it was more differentiated (pseudo mucinous cystadenoma)

In a case of breast cancer in which death resulted from sensis the lead treatment caused remarkable regression (spindle oat shaped phantom cells pyknosis etc i in metastases in the liver lungs and suprarenals but a supraclavicular node that had undergone fibrosis still showed active cancer cells the fibrosis having acted as a barrier to the action of

CUVILIGHAM emphasizes the importance of a careful selection of cases of malignant disease for lead treatment. The presence of gross pathological lesions in one or more organs severe cacheria and personal idiosyncrasies are contra indications. Some persons are rendered extremely all by the injections while others are unaffected by large doses of lead

All of the toxic effects of lead have been notedsamous forms of anymin lead changes in the red blood cells constipation gastro intestinal colic and occasionally peripheral nervous system and mental into acutions The Lidneys and liver suffer most from the treatment. Albumiauria occurs in 23 per cent of the cases Renal disease is a contra indication to the treatment Liver intoxication is manifested by headache nauser comiting and a slight icteric tinge due to excessive bile pigment production which is followed by deeper jaundice with bile in the urine (damage to the polygonal cells) and finally by cholangests with large amounts of bile in the urine The hepatic changes are similar to those caused by phosphorus possoning

Most of the more serious toric effects can now be The kidneys are spared by giving a diet of light lon protein food with 2 or 3 pts of fluids daily The anamia may be combated with iron arsenite and blood transfusions. Glucose and insulin and saline solution are administered to check the vomiting, and morphine is given for the colic. Six tenths of a gram of lead is given intravenously in divided doses of 15 to 20 c cm of a 05 per cent solution at intervals of ten days with a month of resting time. The dose is still empirical. In cases of slowly growing tumors, the initial doses are smaller.

Of 227 patients treated with lead, fifty are believed to have been cured. In the other cases the treatment failed although in many there were significant retro gressive changes in the growth such as cedema and lobulation Surgery and the \ rays are used when indicated Cunningham reports several interesting cases A woman who had a fungating cancer of the breast was still alive five years after the lead treat ment, and since the treatment had nursed two babies at the affected breast A sarcoma of the small bowel an adenocarcinoma of the liver and an adenocarcinoma of the uterus were completely ar rested by lead treatment alone. In cases in which an incomplete operation had been performed (resection of the rectum with incomplete removal of the mass, gastro enterostomy for gastric cancer), the lead treatment held the remaining neoplastic tissue in check

While the lead treatment now given has definite results, there is need of a more therapeutically active preparation of lead with less toxicity

BLAR BELL states that the choronce epithelium is normally malignant in that it has the power of eroding the blood vessels and other maternal issues, of cellular multiplication, and of metastasis. He has long believed that the cancer cell is a reversion a de differentiation, of the somatic body cell to the type of the chononic epithelium. The undifferentiated character of malignant cells has been noted generally, but the fact that this is purposeful and a return to the ancestral type and that the adaptation is forced by metabolic disturbances has not been emphasized If choronic epithelium and neoplastic tissue are

alike, they should resemble each other morphologically, chemically, physicochemically, and function ally, and in their toxicological affinities

It is eyident that the more malignant a tumor the more syncy till the arrangement of the cancer cells Malignant cells are more permeable (an essential of growth and multiplication) than normal cells. The normal resting cell has no glycolytic power but a high respiratory (oxidation) function. The cancer cell and the chorionic epithelium have a high glycolytic power.

If normal body tissues which have no glycolytic power, he first starved of oxygen for a considerable time, they will take on glycolytic action after the manner of the cancer cell. The metabolic disturbance which initiates the cancerous change may be oxygen starvition. If this is true, malignant neoplasia is a state induced by oxygen starvation supervening on injury to the cell itself or the neighboring blood supply. In the absence of oxygen, the injured cell like the chorionic epithelium must have the power of obtaining energy by glycolysis in order to live

It is probable that the great majority of foreign substances are toute to living cells and when given in excessive doses will cause injury of the endothelium of the blood vessels destroy the liver cells and affect the kidney tubules. In smaller doses each foreign substance may have a special and independ ent action lead, for example, has specifically a stunting effect on growing tissues. The toxicological affinities of chorion and cancer should be the same

This is the rationale of lead abortion and the use of lead in the treatment of malignant tumors. The analogy between the chorionic epithelium and the malignant cell is supported by the clinical results of the lead treatment of cancer. As yet Blair Bell does not desire to give the lead suspension to the medical profession in general because it is toxic its results are uncertain and if it is used indiscriminately it may soon be brought into disrepute.

HARRY C SALTZSTEIN M D

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Supplementary to

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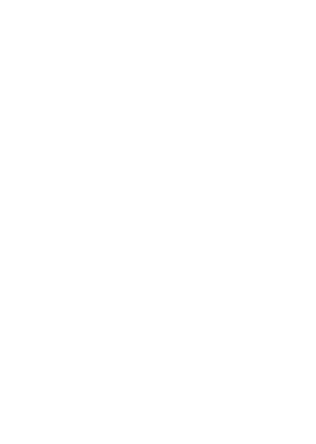
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Editorial communications should be sent to Franklin H. Martin. Editor. 54 East Erie St., Chicago Editorial and Business Offices. 54 East Erie St. Chicago. Illinois. U. S. A. Publishers for Great Britain. Baillieer. Endadl. & Cook, 8 Hennetta St. Covent Garden. London. W. C.



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EDITOR'S COMMENT

HOLMES comprehensive discussion of the functions of the prititary gland and the experimental and clinical results of path ological conditions involving the gland (p. 474), and Dott's study of prititary disorders with particular reference to their surgical treatment (p. 472) form an admirable summary of present day knowledge of the hypophisis. Both writer emphasize the increasing emphasis that is being placed upon the hypothalamus and other portions of the brain adjacent to the hypoph sis as the essential areas concerned in the production of cer tain so called prititary, symptoms

Nordmann's review of the development of the surgery of the colon during the past twenty five years (p 497) and the discussion following it bring out a number of divergent views particularly with reference to the most satisfactory method of entero anastomosis the treatment of colitis and the development and treatment of megacolon With regard to methods of anastomosis Melzner cites experimental evidence and you Beck clinical evidence in favor of an end to-end anastomosis as advocated by Nordmann Kausch Keysser and Finsterer on the other hand employ a lateral anastomosis but emphasize the necessity of leaving as small a blind sac as possible In the discussion emphasis is laid upon the ad vantage of multiple stage operations in serious cases and the primary formation of a excostomy or colostomy if symptoms of ileus are present

A number of other particularly interesting papers on various phases of abdominal surgery from French and Italian clinics are reviewed in the section of this month is issue devoted to abdominal surgery. Perrotits experimental study of the fate of free and pedunculated flaps of omentum used to cover intestinal incisions (p. 494) shows the importance of preserving the

blood supply of such flaps if scar tissue formation and subsequent adhesions are to be avoided Delore Mallet Guy and Burlet's report of the late results of resection of the stomach for cancer (p. 402) add some definite statistics to the hier ature of gastric carcinoma upon which the surgeon may base a conception of the prognosis of surgical treatment.

Comioles a discussion of mesenteric cysts with a report of two cases (p. 488), and Berard and Mallet Guy s account of a patient presenting symptoms of bilary, lithiasis as a result of stenosis of the pancreatic portion of the common duct (p. 504) suggest the necessity of keeping in machinese unusual conditions in establishing a differential drignosis in the presence of abdominal pathology.

Rountrees discussion on recent contributions to our knowledge of diseases of the kidney and liver (p. 517) and Wilders study of diabetes associated with hyperthyroidism and with myx ordema (p. 469) emphasize the advances that are being mide in the study of normal and disordered function in these particular fields and their reper cussion on the entire field of medical and surgical

therapy
Hutmanns (p. 510) and Ahlstroms (p. 510) discussion of the treatment of non tuberculous adneral affections Bêrard's report of two cases of cancer of the tongue successfully treated by surgery and radium (pp. 467, 468) Robertsons experimental study of acute herantogenous osteomyelitis (p. 520) Hagers review of the chinical picture and the results of treatment in fifty cases of alkaline incrusted cystitis (p. 521), and Jepson's description of the experimental production of ischemic contracture (p. 531) are a few of many other abstracts in this months is susue description of stematic contracture.

INTERNATIONAL ABSTRACT OF SURGERY

TUNE 1927

ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

HEAD

Melchior E The Treatment of Furuncie of the Face (Zur Therapie der Gesichtsfurunkel) Beitr klin Chir 1926 LXXX 681

With regard to the treatment of furuncle of the face there is considerable difference of opinion Extreme partisans of strictly conservative treat ment are opposed by the partisans of operation in every case The author reviews the hterature on the subject

Besides the cervical congestion of Bier and suc tion hyperæmia other conservative measures have heen recently advocated, viz the injection of autog enous blood encircling the infected area as done hy Laewen, the serum therapy of Riedel injections of carholic acid the vaccine treatment of Cruca and the roentgen irradiation method proposed by

The over valuation of conservative measures is explained hy the fact that the clinical character of facial furuncle is extremely varied and that the so called henign forms are more common than the malignant forms There is a preponderance of cases which Trendelenhurg describes as 'entirely inhocent i

The presence of a very pronounced collateral ordematous swelling is not a sure criterion of Œdema of the evelid and chemosis do not necessarily indicate thrombosis of the cavernous sinus A line of redness and swelling leading to the angle of the eye is not always a sign of thrombophlebitis of the angular vein severe involvement of the general health especially high fever which even in the heginning, is never ab sent and is frequently associated with chills, offers an indication of malignancy of the process

Because of the difficulty in differentiating between malignant and benign furuncle of the face from the hehavior of the local process, conclusions hased on statistics as to the value of the different therapeutic

methods are often erroneous

Anatomically the malignant form of facial fu runcle is a progressive phlegmon made up of very small isolated abscesses-a carbuncle This tend ency toward a carbuncle character is due to the rigid fixation of the skin of the face to the mimetic musculature (Rosenbach), hy reason of which infectious material is easily pressed into the tissue spaces and the blood stream. The rich vasculariza tion of the region favors the development of in fectious thrombophlehitis A fatal outcome is favored also hy mechanical irritation produced by the patient such as squeezing or pricking of the

area and the scratching off of scahs

Incision is done (I) to abort the process at the outset, (2) to evacuate the collection of pus, or (3) to prevent the spread of a carbuncle Incision made to abort the process in its early stages is futile as it relieves the tension only in its immediate vicinity and does not prevent the further progress of the condition In a case of carbuncle with fluid pus the question as to whether incision should he done or the spontaneous rupture of the abscess awaited is not of much practical importance. An objection made hy partisans of conservative treatment to incision in cases of progressive phlegmonous carbuncle is that the opening up of the vessels and tissue spaces may have an unfavorable effect upon the course of the disease. This objection is not

The outflowing blood carries out with it the infectious material, and it is hardly prohable that under such circumstances infectious material could

be sucked into the blood vessels

The failure of the incision of a malignant furuncle of the lip to stop the process is due to the fact that an extensive general bacterial invasion has already occurred and the rendering of the primary lesion innocuous no longer will have any influence upon the course of the disease In such cases the patient dies, not because of the operative procedure hut in spite of it Any conservative treatment would fail also Incision has an unfavorable effect only when

it is not done thoroughly enough. The indement and technique of the surgeon determine the resuft

With the patient under narcosis the author makes a cross incision and undermines the tissues parallel with the surface as far as healthy tissue This gives a good cosmetic result as it renders the making of several parallel incisions unnecessary. A very sharp knife is used in order to prevent pressure on the surrounding tissues The transverse incision at the inner angle of the eye is extended down to the bone cutting through the angular vein

After the operation care is taken to prevent alf external trauma the patient is kept in bed and immobilization of the mimetic musculature is obtained by prohibiting talking and chewing. In cases of furuncle of the lip showing a tendency to progress a proper incision is the surest means of preventing the further propagation of the condition Operation is always indicated when chills and the local findings suggest thrombophlebitis

In the period from roog to 1925 sevents three cases were treated at the Breslau Chair Thurts seven were treated by operation and thirty six corservatively There were five deaths a mor tality of about 7 per cent Although four of the deaths occurred in the cases which were treated surgically it is erroneous to conclude from this that conservative measures are superior to operation as there were no very severe cases in the group treated conservatively and many of the cases treated by operation were cases in which conservative meas ures had failed Discri (Z)

Ivy R H Benign Bony Enlargement of the Condy fold Process of the Mandible In 1 Sure 1027 ITXT1 2/

Bony enlargements of the conds lord process of the mandible present a definite clinical syndrome viz slowly progressive vertical elongation of one side of the face produced by lengthening of the ascending ramus of the mandible the chin being pushed over toward the opposite side failure of the upper and lower teeth on the affected side to meet and fittle or no interference with motion of the jaw disease has been classified as an osteoma exostosis by perostosis hypertrophy an inflammatory process and overgrowth Most of the recorded cases were successfully treated by excision of the enlarged condy le

The author adds three cases to the seventeen found in the literature MORRIS H LARY M D

Fitzwilliams D C L Rangia Brit J Surg 1927

Ranula is a loose term which has no scientific meaning but has been applied to all cystic swellings of the floor of the mouth whatever their form or origin Twenty-one cases from the literature are reviewed. The author concludes that a ranula may arise in the salivary glands including Blandin's gland, and in the mucous glands but nowhere else He believes there is nothing to favor the view that Fleishmann's bursa exists and nothing to connect a ranula with the persistence of a cervical sinus I FRANK DOUGHTY M D

EYE

Verrey A Nagel s Anomaloscope Bril M J 1926 11 110

Nagels anomaloscope permits a more exact diagnosis of color defects than lanterns and isochro matic tables Three slits let in rays of light in such a manner that they are divided into their component parts by three prisms. Use is made of the green rays of one and the red rays of another to obtain pure green red or a combination of both. The mixture is matched with yellow let in by the third prism With the second anomaloscope which is essentially a spectroscope a blue match can be made. Blue perception is rarely diminished in congenital dys chromatonsy Macular blue blindness is found not only in retinal disorders but also in diseases of the optic perve VIRGIL WES OUT M D

Khan 33 A The Pathogenesis of Microphthalmia Best J Ophith 1926 x 625

Khan reports four cases of microphthalmia show ing different stages in the arrest of normal develop ment Deutschmann and Hess attribute the condition to intra uterine inflammation. The author he lieves that this may be the cause of colobomata of the iris and staphyloma but states that no pathological evidence of inflammation in microphthalmis has been reported. According to another theory, the cause of microphthalmia is an arre t of normal development Ochi produced the condition in twenty six experimental animals by causing a mechanical disturbance and by injecting salt solu tion and distilled water and air near the blastoderm Consanguinity may also be a factor

In one of the reported eases fright was the cause Cessation of the menses usually corresponds to about the third week of gestation when the optic vesicles are being formed. It was at this time that the mother realized her condition and her nervous system was upset by the shock

Samuel | Durk M D

De Schweinltz G. F. Essential Progressive Atrophy of the Irls A Second Communication Inh Ophth 1927 lvt 10

De Schweimitz reports a ease of progressive atrophy of the ras which he kept under observation for fourteen years reviews the reports of similar cases found in the literature and gives the theories which have been advanced regarding the etiology of the condition

In their typical manuestations these atrophies are unilateral and slowly progressive and are ultimately associated with the development of glaucoma Aberrations of the itis characterized by such conditions as polycona bridge coloborna persistent pupillary membrane, etc., must not be mistaken for Arms 4. \ Exclusion of the Lens Capoule

Affine reports even cases haring a direct blance of the wide of the above of the lens carped. There is a signal equippe disa in the center of the an end source of the lens in the center of the disable in the lens which while their the pural. Surrounding the equippe disk is a dear black nie where the capsale seem to be trungant? Bernd this dear aimse up patch is composed own, a do so. On the pupillars edge of the ris is a row in white each looked attribed to the primerted lorder. Some of these tais were found looke in the error chamber. As they may found looke in the triangle they may cause obstruction to the outflow and account for certain cross of glacomas. Cutawat in various states was found in even case. Alling draws the following confluence.

I The membrane 1 not an exudate but an extelia

tion of the antenor limitly

2 The condition is a sink change but his been observed in glass blowers exposed to intra red rive 3. Glaucoma is not present as a ruk contrary to logic sobservation but there is usually a catarity.

The formation of the central dek and its ragged border and the deposits at the pupillars educate due to the denudation of the capsule outside the central disk by the iris movements.

5 Sometimes the exfoliated limella comes off in sheets instead of flakes Vigit Wescott, M.D.

Moore R F The Significance of Retinal Hamor rhages Eru M J 19 6 n 100,

No classification of retunits has been found on tirely satisfactory. Any vascular change in the return noted with the ophthalmoscope calls for care ful consideration. There are purely load that the of the eve characterized by return I branching, not dependent upon constitutional disease, but a retliarl hamorrhage calls for a most thorough study of the general condition.

This discussion is divided into four main sections each with numerous subdivisions. Under considerations is given a classification of retinal hamorrhages excluding those due to theerse of the

Section 2 deals with the different types of he mor rhage. An attempt is made to associate each type with a constitutional disease.

Berein, C. Pan destend in Kelding to Ophthal molecular Language of the latter of the l

If a series of proceed consolors it is on Parker conflicted the agent consecution of the dock control in the eye with the lower is transitive to coming about to per cert recordless of the low stone of the toron. This is digitally a way to deal the authors of each of the hadden so with a transitive to the life day is important in the observer. I find upon is normal, a rapid accurate retrieval is the following.

The of error and pattent each hold one and of a struct rose on long below opposite even the other each being covered. The center of the structure is marked and a treet object passed in its plane the blind spots of both being incipated out. Important intornation is obtained if o with Buillist a passing failed, being high the distolar pattern blood pressures should be tone as higher the distolar passing of the retail distolar pressure is noted muricular failed by the retail distolar pressure is noted muricular failed for the retail distolar pressure is noted muricular distolar pressure in the New shaws the optic camb to be of normal or larger than the retail distolar pressure is noted out in Figure than the optic camb to be of normal or larger than the order camb to be of normal or larger than the optic camb is one of normal to extrain all out in a facility of the optic camb to be of normal or larger than normal size, matrix is governed to extrain all out in a facility of the contrained normal size, matrix is governed to extrain all out in a facility of the contrained normal size, matrix is governed to extrain all out in a facility of the contrained normal size, matrix is governed to extrain all out in a second of the contrained normal size.

The ophthalmologist should acide repeated studies of the field—bland spots—and central vision In all cases of pupillodeme. Sophilis blank ruled out, he should urge pathartic decompression when vision is threatened regardless of the chology. Become fives a best of conditions producing choked disk.

Mo temportant in the treatment is the preservation of vision. Kees from of the opth circle she the assupersted by Muller may be considered. Decompressions are more often done too life than too carly. When the opth can ils are small, operation should be done wither than in other cases. Cushing a statement that a walling of over a dioptic is caused to mechanical pressure should be found in midd.

When there is no danger of loss of vision and the chology is doubtful, it may be permissible to use mercury, ursente, and fodded as well as tubercullu and vacelus.

Some LA Doug, M.D.

Magitot A: Introceenial Hypertension Without Choked Disk | Im J. Ophib , 1926 | 7 8 17 8 10

Choked disk is a lite symptom of intracranial hypertension. Increased intracranial pressure may

irregularly with potassium iodide Ulceration ac companied by difficulty in deglution and pain irradiating to the ear began in July 192. Dicember 30 in 4 the patient entered the author's service with an enormous ulceration of the authors service with an enormous ulceration of the anterior and right part of the tongue resting on an indurated surface Biopsy showed the lesson to be a malpingham epithelioma. Radical resection was performed into normal tissue the anterior two thirds of the tongue heing removed On Tebruary 2 1925 a mask. Of left containing 26 tubes with 68 mgm of radium was applied. This mask covered the carotid submid was just the surface of the containing and the surface of the surface o

At the present time the patient is in excellent condition All of the carotid region is supple and there is no trace of gland recurrence. The appearance of the stump of the tongue is also satisfactory. The patient has learned to speak and is able to swallow without difficulty. She has gained 6 or 7 kgm in whereht.

AUDRYG Mogora M. D.

Bérard The Late Result in Cancer of the Tongue Treated with Radium (Résultat éloigné d'un cancer de la langue traite par curiethérapie) Lyon chir 1916 vuil 020

The author has treated three patients for cancer of the tongue by radium therapy All are apparently cured after two or three years

In one case there was an ulcer at the base of the tongue on the right side involving the antenor pillar Biopsy showed it to be a malpingbain prickle cell epitheliona. Palpation did not reveal any on largement of the submazillary or carotid glands on February 1994 inneteen tubes of radium were applied in a mask of wax covering the mastend and the submazillary and carotid regions on the right side. This mask was left on for seven days eaving a dose of 170 mc.

On May o 1921 eight radium needles were im planted in the periphery of the Inigual tumor and left in place for eight days giving a dose of 14 fo. me. The patient is now in excellent peneral condition. Locally there is no trace of the neoplasm custruzation is perfect the base of the tongue and the anterior pillar are both normal. In the cervical region there are traces of a burn following indiodermatus. Palpation does not show any gland enlargement.

Fitzwilliams D C L The Surgical Aspect of Carcinoma of the Tongue Brit W J 1926 II

Milligan Sir W The Treatment of Carcinoma of the Tongue by Radiodiathermy Brit M J 1926 [tr. 1902

FITZWILLIAMS Of the utmost importance in the surgery of the tongue is the preliminary treatment of oral sepsis and the teaching of the patient bow to swallow. The intraduccal operation is suitable for every case in which there is no extension to the

floor of the mouth and no involvement of the loner ruw, the anterior pillar of the fauces the tonsils or the palate Ligation of the lingual artery in the neck is unnecessary and will soon he abandoned The tongue should be remove dirst and then after healing has occurred a complete block dissection of the glands of the neck should be made

the glands of the neck should be made. The vancstheau is induced preferably by warmed ether administered by lary ngostomy and preceded by atropase. The tongue is held with silk ligatures the phary ax is plugged with a manne sponge and the incision is made through the mucosa leaving a margin of about \$\pmu\$ in After separation and cutting of the genomy colosisty, the styloglosists and the hopogoistist muscles the lingual artery is located and the amount total completed with ever to leave no ran area. When this has been done warm Fruir's labeliam is painted on the stump and the stirth in the back of the tongue is fastened to the check.

The after treatment is directed toward rendering the patient as comfortable as possible. Morphine is withheld and the patient taught to irrigate the mouth with a warm potassium permanganate solu

In the neck the best results are obtained from a block dissection starting from under the chin and extending backward to the sternomastoid muscle which is removed together with the internal jugular

MILLICAN'S article is summarized as follows

1 Whenever possible immediate surgical removal of the primary growth and of the lymphatic field draining the focus of infection should be done

2 When surgical intervention is deemed impracticable an attempt should be made to remove the growth with the diathermic knife or to destroy it by gradual coagulation with button or spike shaped electrodes.

3 When removal of the growth is contra indicated the insertion of unscreened radium tubes into its substance should be done

4 Combined treatment by means of diathermic coagulation and radium implantation at times gives

gratifying results
5 In early cases the lymphatic field upon the
affected side and in advanced eases the lymphatic
field upon both sides should be removed by a surgi

cal operation
6 Irradiation of the lympathic field should be an
invariable postoperative procedure and should be
done preferably by the implantation of screened
tubes or alternately by surface applications or

\ray therapy
7 No preliminary irradiation should be employed
if glandular deposits are to be removed by ordinary
surgical procedures

8 The diathermic cautery knife presents many advantages as compared with the scalpel for the removal of a cancerous tongue

MANFORD R WALTZ M D

PHARYNX

Guthrie D Acute Retropharyngeal Abscess In Childhood Brit M J, 1926 n 1174

Guthrie reports a series of twenty cases of retro pharyngeal abscess in childhood Most of the

patients were under 1 year of age

The most characteristic symptom is difficulty in breathing In the early stage there is a croupy cough The temperature is seldom very high and may even be normal Digital examination is the most certain diagnostic test, but should not be practised unless one is prepared to care for the abscess in case it should be opened

The abscess should be opened preferably without the use of an anæsthetic as soon as the diagnosis is made Following free drainage, convalescence is un

JAMES C BRASWELL M D

eventful

NECK

Hammett F S Studies of the Thyroid Apparatus XXXVII The Role of the Thyroid Apparatus in the Growth of the Thymus Endocrinology

The normal course of thy mus growth is still un determined although there is a general belief that the gland undergoes a normal age involution independent of dietary and pathological influences

By a series of experiments on the albino rat the author hopes to plot the normal curve of thymus growth The conclusions drawn from these experi

ments to date are the following

'A study of thymus growth in the albino rat under close and ideal conditions with respect to diet, environment and health shows that there is no such phenomenon as the age involution of the thymus up to the time of young adulthood, some

time after puberty

'The thymus does lose weight during puherty, and growth of the organ is resumed after the completion of the adjustment when the animals are under suitable conditions Hence it is evident that puberty is not necessarily the initiator of a per manent progressive loss of weight or involution of the thymus The pubertal loss of weight is simply a reaction to the general physiological disturbance of the period, and not to any specific relation of the thymus to gonadal incretory activity

The thymus is affected much more adversely by both thyroid and parathyroid deficiency than is the

body as a whole

Thymic growth is retrogressive, i.e. weight is lost after thyroid or parathyroid removal at fifty

days or thereafter

This is to be taken as an expression of an additive effect of the normal disturbing influence of the pubertal adjustment and the total disharmony induced by the glandular deficiencies. It is not an acceleration of involution

'The distortion of thymus growth induced by thyroid and parathyroid deficiencies is best inter preted as a reaction to the general body disturbance The evidence does not justify the assumption that the growth of the organ is specifically related to thyroid or parathyroid activity

DON & HUTCHENS M D

Hyperthyroidism Myxædema Wilder R M and Diabetes Arch Int Med 10 6 xxxviii 736

This is a study of thirty eight cases of frank diabetes combined with states of hyperthyroidism and of one case of diabetes associated with myxœ dema Diabetes occurs in about 1 r per cent of cases of hyperthyroidism Evophthalmic Loiter is less frequently complicated by diabetes (o 6 per cent of cases) than adenomatous goiter with hyper thyroidism (2 per cent) The study is not concerned with alimentary glycosuria which is a much more common phenomenon in cases of hyperthyroidism and in the author's opinion does not represent any actual ahnormality of carbohydrate metabolism as herein defined

The symptoms of hyperthyroidism in a patient with diabetes may be obscured by those of diabetes This is true particularly in cases with severe acidosis or diabetic coma. It it advisable therefore, to consider the possibility of hyperthyroidism in all cases of diabetic acidosis

A mild and possibly inconspicuous diabetes may be fanned into flame by hyperthyroidism and severe hyperthyroidism (crisis) will readily provoke coma in a diabetic patient

The requirement of insulin is increased by hyperthyroidism

Iodine administered as compound solution in a dosage of from 20 to 60 minims daily to patients suffering from combined exophthalmic goiter and diabetes reduces the intensity of the diabetes. This effect parallels that upon the basal metabolic rate Iodine has little or no influence on the course of diabetes associated with adenomatous goiter with hyperthyroidism and is without effect in cases of uncomplicated diabetes Thyroidectomy is almost always followed by a

considerable gain in tolerance in diabetes compli cated by hyperthyroidism Sometimes this is so great as to suggest a cure of the diabetes, but the response to glucose test meals may still reveal the persistence of the diabetic tendency. A cure may he simulated also when a hypothyroid state is induced by the operation A case of juvenile diahetes is cited to illustrate the palhative effect of my xoodema developing in diabetes. When the basal metabolie rate of this child was restored to normal the previous diabetic state returned

Special precautions are necessary in operations on patients with diabetes complicated by hyper thyroidism The period of exacerbated toxicity which so often follows thyroidectomy is extremely dangerous There is also considerable danger of provoking hypoglycæmia in these patients since they may be peculiarly sensitive to overdoses of insulin Hypoglycæmic coma is differentiated from 470

other conditions of collapse by the fact that it is usually attended by a striking elevation of the blood pressure

The phenomena exhibited by patients with diabetes combined with states of hyperthyroidism or hypothyroidism may be related to the general metabolic rate and thus may be explained without recourse to speculation as to a specific interdepend ence of the thyroid and pancreas. It appears that at lower metabolic rates the tissue cell is capable of utilizing a given amount of glucose with less insulin and that with higher metabolic rates the require ment of insulin is disproportionately increased

Wahlberg J Thyrotoucosis and Its Reaction to Small Doses of Iodine (Das Thyrotoukosen Thyrotoxicosis and Its Reaction to syndrom und seine Reaktion ber kleinen Joddosen) leta med Scand 1926 Supp xiv

Under the term thyrotoxicosis the author in cludes all thyroid disturbances from the high grade Basedow type to the borderline conditions resem bling the simple neuroses

Treatment with small doses of rodine was given in twenty cases of different character and severity and the changes in the clinical picture the basal metabolic rate the pulse rate and the weight were noted The author summarizes the results as

follows z There is at first improvement which occurs the more quickly and definitely the more pro nounced the intoxication. This is manifested by a fall in the hasal metabolic rate of as much as 50 per cent a slowing of the pulse rate amounting to 40 heats a minute, recession of the exorbithalmos

cessation of the diarrhoa etc 2 When the treatment is continued there occurs a change for the worse which is more prompt and marked in the severe cases. In the severe cases the condition may become worse than at the beginning

of the treatment 3 When the treatment is stopped there occurs an exacerbation which is more marked in the more

severe cases and may be worse than the condition at the onset

Because of the last two facts sodine therapy in thyrotoxicosis is purely a palliative measure. The author recommends its use before and after opera tion as is done by Plummer but warns against its employment for curative purposes in severe thire toxicosis as in these it may cause great damage

MICHAEL L MASON M D Moll II and Scott R A M Gastric Secretion in Graves Disease Lancel 1027 cctit 68

Of fifty cases of hyperthyroidism in which the Rehfuss test was made twenty two showed achlor hydria In only 60 per cent was the achlorhydria accounted for by duodenal regurgitation authors attribute the achlorhydra to a two fold mechanism (1) overaction of the vagus which hastens the passage of the gastric contents through the stomach and causes duodenal regurgitation, and (2) a direct inhibitory action of the sympathetic on hydrochloric acid secretion J FRANK DOUGHTY M D

Schugt H P Tuberculosis of the Larynx Treat ment by Surgical Intervention in the Superior and inferior Larvageal (Recurrent) Nerve A Report Based on Seventy Nine Cases Arch Otolaryngol 1926 iv 479

The superior laryngeal nerve essentially the nerve of the larynx has played an important part in the treatment of tuberculosis of the larvnx for a long time The recurrent nerve has been considered in this connection only recently. An absolutely safe method of permanently overcoming pain on de glutition is resection of the superior laryngeal nerve This is preferable to blocking of the nerve by alcohol injection which is uncertain in its results. It cannot be stated however that resection of the nerve has a direct favorable effect upon the healing of the tuberculous process

In the treatment of tuberculosis of the larvax complete immobilization may be secured by paralyz ing the motor nerve of the larynx-the recurrent lary ngeal nerve The method of choice is the in jection of alcohol The technique is simple and the resulting paraly sis lasts for from four to eight necks Both recurrent perves should not he paralyzed simultaneously

Of fifteen cases of therapeutic paralysis of the re current lary ngeal nerve the lary ngeal condition was improved after the treatment in nine unimproved in three, and worse in two. In one case the treat ment and duration of observation were insufficient for a conclusion The therapeutic paralysis is especially beneficial in unilateral cases which have not advanced too far and the pulmonary condition is relatively favorable SAMUEL LABOR M D

Schwyzer A Operative Relief of Larvngostenosis Ann Surg To27 lttxv 40

Scien yzer reports a case of lary ngostenosis in the treatment of which a special operative procedure was adopted

The patient a woman about 40 years of age had been treated for one year for asthma The laryngo scope showed great destruction of the epiglottis the laryng looked like an ulcerating crater. It was im possible to see into the trachea the laryny baving a very narrow and tortuous lumen and presenting on all sides a hulky thickening with an irregular ulcer ated surface partly covered by a dirty looking material A Wassermann test proved to be 4 plus

Under salvarsan treatment a cicatricial stenosing change seemed to occur with the healing and was undoubtedly the cause of an increase in the severity of the dyspucea The appearance of the larynx how ever improved On account of the dyspinces opera tion was necessary

The thyroid cartilage was divided in a zig zag manner and the two sides of the thyroid cartilage were pulled apart until the tips of the corresponding projections rested upon each other. These were then fastened by a silk suture so that their tips met firmly

If the lary nx is not severely stenosed and does not require an intralary ngeal operation, as for instance in asphyna from paralysis of the posterior cricoarytenoid muscles, the mucosa need not be opened. The stenosis may be relieved by a comparatively simple operation and the indefinitely prolonged wear ing of a tracheotomy cannula avoided. The described method of widening the lary nx was satisfactory. In reality this is a lary ngoplasty

MORRIS H KAHN M D

Grivot Leroux and Causse Concurrent Development of an Epithelioma of a Vocal Cord and a Lymphosarcoma of the Base of the Tongue (Présentation d'un malade chez lequel évoluent si multanément un épithelioma epidermide d'une corde vocale et un lymphosarcome de la base de la langue) Arch internal de larynpól 1926, xxu 1118

The patient whose case is reported a man of 62 years, was examined in October, 1925 because of dysphonia of several months' duration. At that time a tumor which appeared to be a being nolly was found on the left vocal cord. This was removed Microscopic section showed it to be a malignant papilloma. In December, 1925 a piece of the vocal cord was removed and sectioned, examination revealed thickening of the epithelum in places with mitoses but no invasion in the depths of the cord in January, 1926, the cord appeared practically normal except for slight reddening at the site of the previous growth, but at the base of the tongue there was an ulcer with moderate induration about it. Biotsy showed I mobiled arrorms.

In February, 1926, the ulcer on the base of the tongue showed no change, but at the site of the

papilioma on the left vocal cord there was a small red nodule. The patient had received anti-sphilis treatment since the last examination in spite of a negative Wassermann reaction. Biopsy at this time showed the vocal cord to be normal, the nodule to be a malignant papilloma not invading the cord, and the lesion at the base of the tongue to be, as diagnosed before, a malignant lympho sarcoma.

Because of the clinically benign course of the condition and the patient's age and apparent re sistance to these tumors, irradiation was regarded as preferable to operation

MICHAUL L MASON M D

Voorhoeve N The Stomach as a Vicarious Air Container After Extripation of the Larynx (Der Magen al vikanierender Luftkessel nach I arynxexstirpation) 1cta radiol 1926 vii <8/

The author describes the X ray findings in a case of co-ophageal speech after extirpation of the larynx In this case it was demonstrated that the stomach can perform the function of the lungs as an air chamber

The stomach is filled with air, not by active swallowing, but by the aspiration caused by in spiratory movement. The air is expelled from the stomach by an expiratory movement in which the patient opens the cardia.

The manner in which the aspiratory and expulsory effect of the respiratory movement operates in the cosophagus and the stomach is explained

The mechanism of spasmodic aerophagia by as piration as described by Linossier necessitates the assumption that the oral part of the cosophagus and probably also the cardia are actively opened by the patient

SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Bullock W O Traumatic Pneumocephalus an Analysis and Report of a Case Surg Cynec & Obs 1926 xlm 750

The author reports a case of pneumocephalus and briefly reviews fifteen cases collected from the literature. His patient was a 60 year old man who was kicked in the head by a mule and was confined to bed for three weeks by severe headrehe During the fourth week about a pint of clear fluid was discharged from his no e Signs of increasing intra cranial involvement then developed. Six weeks after the injury there were signs of involvement of the trontal lobes and at the base and I ray ex amination of the skull reveiled a fracture of the right frontal region and a huge external pneumo cephalus over the frontal lobes 's clear fluid escaped at intervals there was doubtless a com munication with the nasal eavity

An exploratory craniotomy was done The patient died ten days later from meningitis (?) Autops;

was not permitted

Bullock believes that if an \ ray examination were made in ill cases of head injury pneumo cephalus would be found more frequently mechanism is probably the foreing in of air trauma or subsequent coughing or sneezingle some cases the air has not appeared whonlater There are three types of thepneumo diffuse external pneumocephalus in aerocele a cephalus (simple or combined) "the brain sub excumscribed accumulation ofepend upon the stance The cour e and outiction to infection disposition of the air and Conservative treat in addition to the brain & but if the escape of ment has given the by thout much operative the air can be I y help ALBERT S CRAWFORD MD

trauma this m

cussion on Pitultary Disorders Dott N Matment Bn W J 1926 II 1040 The Arcases of hypopituitarism should

Diagno d other destructive agents acting A study and with the single exception of that all turwth cause by populariarism The on the pituhe physiology of the pituitary the eosinop'ions attributed to each portion author dis'R LOBE (PARTES NERVOSA gland and t'IA AND TUBERALIS)

THE if the functions of the posterior d uncertain The action of the ar krow till sc.

extract of the posterior labe is well known but the powerful pharmacological effect of the extract proves nothing as to the normal physiological func tion of the lobe The single proved function of which Dott is aware is the regulation of the pigment cells in certain amphibia which remain pale after the removal of the pituitary body but become black again upon the injection of the extract and remain black after successful grafting of the pars intermedia tissue In the dea the total removal of the posterior lobe of the paruitary is attended by no apparent consequences. It appears quite unwarranted by Luonn frets o attribute any definite symptom of pituitary di ase to derangement of this structu e

THE VITRIOR FORE (PARS DISTALLS)

With regal to the function of the antenor lobe ne have mi a more definite information Dott gires an interesting fustorical sketch of the experimen al nork leaff up to this knowledge Nothing re sembling fornegals has been produced by the experimentaldministration of anterior lobe a fact which raises e question as to whether the secretion of the cosmothe tumor may be not only quan i a mely but algurhitatively abnormal

PITURY STUPPOUS OF LACERTAIN ORIGIN

i stuffers symptoms of uncertain origin include adiposit) an inconstant though striking feats e which is more common and conspicuous in the young than the old A comparison of this adiposity with that following castration and the genital hypoplasia of pituitary insufficiency suggests that it may be an indirect effect produced through the intermediation of the general glands. The cause may be the involve ment by a tumor of the fat metabolism center in the hypothalamic region the existence of which has been demonstrated by recent experimental work Diabetes insipidus is an inconstant accompani

ment of pituitary disease. It has been attributed to lesions of the posterior lobe of the gland and to fesions of the hypothylamus A study of tumors indicates that it occurs only when the growth is large enough to indent the base of the brain and does not always occur even then Experimental exidence favors the cerebral theory but it is difficult to ignore the fact that injections of extract of the posterior lobe will arrest the polyuria

The diabetes mellitus of acromegaly is inconstant and may occur early or late in the condition. It may be extremely irregular and transient thereby differ ing from typical diabetes mellitus. It reacts to ersulin. In the case of a patient who died in dirbetic coma the blets of Langerhans showed sclerosis but it is difficult to associate an intermittent symptom with a sclerotic process

Increased sugar tolerance has heen observed in pituitary disorders, but may he found in any form of obesity with a lowered metabolism. Sugar in gestion tests are hable to lead to gross error

PITUITARY DISORDERS IN RELATION TO

Dott describes the histology of the eosinophilic adenoma and the changes seen in acromegaly and gigantism Of the many lesions which may evert a destructive effect on the gland and result to hypo pituitarism, the chromophohe adenoma and the suprasellar cyst are the most common The author describes these in some detail and reviews the fied ings in hypopituitarism. The mixed adenoma may cause signs of hoth hyperpituitarism and bypo pituitarism in the same person The histology of the tumor explains the definite syndromes The tumor associated with the clinical signs of pathological hyperpituitarism is distinguished by eosinophilic cells and it is reasonable to assume that these cells are responsible. As these cells closely resemble normal anterior lohe cells their secretion may be assumed to resemble the normal anterior lobe hormone No specific secretion would be expected from the chromophohe adenoma which represents the least specialized cell type and in which this cell usually attains only an emhryonic phase

LATENT HYPOPITUITARISM

Cases of latent hypoptitutarism are a group with "monounced neighborhood but inconspictious glan dular symptoms" (Cushing) which are recognized only from the effects of pressure upon the optic fibers. The condition occurs in persons over 40 years of age. This is easily explained by the fact that cutaneous changes and depression of sexual function are the only constant signs of hypopituitar ism, and adiposity does not occur in later life. The changes therefore excite no notice in advancing age.

ADENOCARCINOMA OF THE PITUITARY GLAND

Adenocarcinoma of the pituitary gland is extreme in rare. The few cases known to the author were those of patients over 45 years of age. The growth tends to invade the cramial hones and extend het ween them and the dura, causing progressive involvement of the cranial nerves. The dura seems to form a barner against intracramial lovasion, but the growth may produce metastases in the liver and elsewhere.

PITUITARY DISORDERS FROM THE ANATOMICAL AND SURGICAL STANDPOINT

From the anatomical and surgical standpoint, three main groups of pituitary disorders may he distinguished

r Tumors of intrasellar origin By the time tumors of intrasellar origin cause symptoms, they have usually passed hey ond the limits of the sella These tumors are pituitary adenomata the most common pituitary lession. The author describes their growth and their effects on the sixth fifth and third nerves the optic fihers and the bypotbalamus, and the results of olihiteration of the third ventricle with hydrocephalus and pressure upon the inner surface of the temporal pole with olfactory hallucina tions. Even a tumor of moderate size will surround the carotid arteries and insinuate itself hetween the layers of the basal dura. When this has occurred, the complete operative removal of the tumor is impossible.

2 Tumors of suprasellar origin Tumors of supra sellar origin arise from or near the roof of the sella and enlarge primarily in the cisterna chiasmatis, although by the time they cause symptoms they have usually encroached on the sella and its contents by pressing the roof down from above. In their upward growth they usually pass hehind the chiasm and toward the third ventricle and the inter peduncular space They differ from the intrasellar tumors not only in their origin but also in their relation to the subarachnoid space and the sequence in which they encounter the various structures upon which they press and the direction in which they exert pressure Hypothalamic symptoms may occur early, and the field changes may differ as the pressure often comes from above and hehind the chiasm The \ ray picture of the sella differs, instead of the distention characteristic of pressure from within such as occurs in cases of adenoma there is a flattening hy pressure from above with erosion of the posterior clinoid processes

3 General pressure causing hypopatuitansm In long standing cases of increased intracranial pressure the sella may he flattened and it is not surprising that signs of hypopituitarism are often present as in cases of hydrocephalus secondary to midhrain tumor or chronic adhesive meningitis. The author has seen nituitary signs so marked in such cases as to suggest

primary pituitary disease

The differential diagnosis between pituitary le sions of these three types is nearly always possible It is of the utmost importance as the operative treat ment differs radically and an incorrect approach may be not only inadequate but very dangerous Adenomata are rare before the fifteenth year of age and uncommon hefore the twentieth year, whereas suprasellar cysts are frequently encountered in young children and the vast majority manifest them selves before the thirtieth year Other aids in the diagnosis are the chronology of the symptoms the character of the field defects and the \ ray findings The even ballooning of the intrasellar adenoma is characteristic and in marked contrast to the isolated erosion of the chinoid processes and the calcification of the suprasellar cyst In the presence of general intracranial pressure there is not only erosion of the chnoids and the dorsum sella hut also pressure atrophy of other portions of the hase or vault It is not easy to distinguish between a suprasellar cost or tumor without calcification and a cerehellar lesion with hydrocephalus hut ventriculography may help

TREATMENT

The treatment of conditions related to the pitus tary gland includes surgery, irradiation and glan dular therapy

The indications for surgery are fairly Surgery Amelioration of glandular disturbances fol lowing operation has been reported in only a very few cases and as such disturbances are seldom of very serious inconvenience to the patient they do not constitute an indication for operation at the present time On the other hand the persistence of severe headache and progressive loss of vision demand operative measures. In cases with these symptoms it is important that surgery be under taken reasonably early when the risk is least and benefit to vision is assured Operation should be strongly urged for cases in which the visual field or acuity are steadily decreasing and for cases of any severity in which improvement is not occurring spontaneously The surgical aspect of the adenoma is considered. The author prefers the transphenoidal approach and describes the technique He ap proaches the suprasellar tumor from above Sub temporal decompression plays a very unimportant role in pituitary surgery

Irradiation Deep irradiation has a powerful destructive effect on the neoplastic cells of adeno mata but not on other tumors of this region so far as is known Caution must be exercised in employing it as a primary treatment. In two cases cited it was followed by such reactive swelling in the tumors that the pressure symptoms became acutely ag gravated and immediate sellar decompression was necessary In early visual cases the irradiation may be tried without a preliminary operation but when the optic fibers are seriously compressed it should not be employed until a transphenoidal operation has been done. As a postoperative adjunct irradia tion is very valuable and undoubtedly hastens im provement Radium introduced by means of an endonasal applicator has been used by some hut the results are not known to be any better than those obtained with the \ ray and a number of complications such as necrosis of the adjacent bone have been reported

Medical treatment Diabetes insipidus may be re heved by the administration of extract of the posterior lobe. This is given as an intranasal spray once or twice a day. Incidental pyrema and lumbar puncture may occasionally cause temporary cessa

tion of the polyuria and thirst. The administration of anterior lobe and whole gland by various means has been extensively employed in clinical cases of hypopituitariam but a review of the literature is by no means convincing as to its efficacy. However a sure foundation is being laid in the experimental laboratory where definite amelioration of the symptoms of hypopituitarism has been obtained in mammals from intraperitoneal injections of large doese of anterior lobe substance. While the active principle has not yet heen solated and suitable means for its administration to human

subjects have not yet been devised there is no doubt that before long such means will be at our disposal Gilbert C Anderson M D

Holmes G Discussion on Pituitary Disorders
Disturbances of Growth of Sexual Functions
and of Metabolism Brit II J 1926 II 1035

The putuitary body as a complex structure composed of several distinct parts of different origin and function. All or one or more of the parts may be involved by disease. Recent investigations have raised doubt with regard to generally accepted hypotheses regarding the physiology of the pituitary body. The normal functions of the pituitary are so closely related to those of other glands especially the sex glands that a distinction of symptoms produced by disease of one of these glands is disfinit!

It is generally believed that the nituitary body has an influence on growth sevual decelopment bodily activity and metabolism these separate functions depending upon different parts: A bormone of the cells of the anterior lobe stimulates the growth of bones and influences the development of the skin and certain viscera. The pars intermedia and the posterior lobe control the development of the ser organs. The posterior lobe influences also the metabolism of carboily drates. The pars tuberalis which lies upon the influendabulum is probably concerned with the secreton of urne.

The pututary body may be disturbed by many types of disease Frimary tumor is probably the most common but the gland may be involved also by metastatic growths. If may be injuried by the pressure of growths in contiguous parts the pressure of hydrocephalus by syphilis and by encephalitis Ettraptionary conditions may block the secretion from the posterior lobe which enters the cerebro spanal circulation through the third varietie or interrupt the nervous connections between the pituitary body and the hypothalamus. Defective development may result from congenital or mechan real causes or regressive changes.

Changes in the size and function of the pituitary gland may be associated with conditions of other endocrane organs such as those occurring in preg nancy following castration and atrophy of the sex

glands and in disease of the thyroid

The chinical syndromes of pituitary conditions are

usually dwoded into hypopituitarism and hyper putuatism. This is probably the most useful classification at present although it has not been proved that the secretions of the cells of an adenoma are identical with the normal. Many clinical symptoms are due to dispituitarism or overactivity of some part of the gland and underactivity of some other part.

DISTURBANCES OF GROWTH

The most common disturbance of growth is acro megaly. This is generally associated with an adnoma of the anterior lobe of the pituitary. Al though in a few cases no tumor or enlargement is to be found, it is possible that in such cases there is a similar growth or over function of an accessory pituitary. Benda bas shown that the characteristic lesion in accomegally is an adenoma which deviates so little from the normal structure that its secretion may he assumed to he similar. As a direct result of the increased secretion or possibly in combination with changes in other endocrine glands the well known bony changes occur, the skin becomes thick and inelastic, and the nose, lips and tongue enlarge Enlargements of the beart, liver pancreas, and kidneys have been described, but are of no pathological significance. The colon has heen found en larged to two or three times the normal this possibly accounting for the severe constipation with periodical normous evacuations which occurred in those cases

Gigantism In pituitary disease in early life a general increase in height and hulk may be the most prominent feature. The growth may continue he yond adolescence The normal proportions of the body may he maintained or the limbs may be abnormally long The sex glands and the secondary sex characteristics may be underdeveloped. There are other factors predisposing to gigantism hut in some giants the pituitary is undoubtedly at fault, some overactivity of the anterior lobe providing the stimulus to skeletal growth possibly before fusion of the epiphyses As an increase in the size of the anterior lobe is known to follow the removal of the testes or ovaries, it is possible that the large stature of eunuchs may be related to pituitary activity Gigantism is not acromegaly in early life but true acromegaly in children has been reported. The two conditions are closely related however, as many giants develop symptoms of acromegaly in later life and acromegaly generally occurs in persons of large build Similar regressive changes occur in the two conditions In both the patient is quite strong at first hut later experiences a progressive weakness which may go on to cachevia. In both conditions the sexual functions are depressed and the patient shows apathy indolence, a lack of energy and interest, and a narrowing of the emotional life. The giant is usually more infantile in his outlook

Duarfism and infantilism Experimental evidence and clinical observation have indicated that lesions of the anterior lobe of the pituitary hody in the young may cause an arrest of physical development Such a lesion in childhood or early adolescence may result in dwarfism or an arrest of development with conservation of the normal adult proportions, or in infantilism in which growth is not necessarily stunted but the morphological characters of infancy and absence of sexual development persist heyond the age of puberty True pituitary dwarfism is not common Persons with this condition are merely miniature adults with fairly well developed sex glands and a normal hair growth The author re ports two cases having features suggesting supra pituitary growths. In one a calcified tumor was shown by the roentgenogram and the patient hecame blind following hi temporal hemianopsia

cases generally show signs of premature sentity in the third decade Infantitism is more common. In this condition the stature may not be short, but the general development is slender and the con figuration of the hody is child like, the set organs are infantile, and the secondary sex characteristics are not developed. Obesity is a prominent feature

ADIPOSITY

Experimental injury of the pituitary and especially of the posterior lohe may lead to an ahnormal de posit of fat in the subcutaneous tissues and the viscera A similar condition may accompany any pituitary lesion which injures the posterior lohe It is seen in acromegaly gigantism, dwarfism and especially in the Froehlich syndrome Extrapituitary lesions causing disfunction may cause the same picture Cushing originally attributed it to a defect of the posterior lohe hut recent work suggests that it may not he the direct effect of the pituitary lesion hut due to damage of adjoining centers in the base of the brain or the genital atrophy that usually accompanies pituitary disease. In a recent case of hypopituitarism seen by the author a rapid and marked increase in weight was lost following the implantation of a testicular graft

SKIN

The skin changes accompanying adiposity are characteristic but occur also in cases without obesity in which atrophy or non development of the genital organs is the chief leature. The skin is usually soft, thin and smooth often practically hairless, and as a rule dry though rarely scalv. In young subjects its color is generally good but in middle life it becomes thin and winhled resembling the skin of old age. Rapid destruction of the entire pituitary body is associated with emaciation somno lence, amenorrhoza in women polyuria atrophy of the sex glands anamia slowness of the pulse and respiration increasing muscular weakness, atrophy of the skin, and in some cases loss of hair and teeth

DISTURBANCES OF SEXUAL FUNCTION

As a rule sexual activity is depressed or lost in all forms of pituitary disease. This is frequently the first symptom. In certain cases of aeromegaly how ever, there may he an early stage of overactivity. The state of the sexual organs varies with the age at which the condition hegins. If it hegins before puberty, the sexual organs remain undeveloped, whereas if it begins after puherty the sexual organs may retain their normal size though frequently atrophy and regressive changes occur and there is loss of all manifestations of sexual function, including desire.

METABOLIC DISTURBANCES

Gly cosuria is a variable symptom of pituitary disease and can be controlled by insulin The carbohy drate tolerance is increased. The hasal metabolic rate varies with the activity of the gland.

being low in hypopituitarism and high in byper pituitarism Polyuria and the clinical manifestations of diabetes insinidus have been attributed to disease of the posterior lobe of the bland but recent in vestigations indicate that they are due to the hypothalamus even though their temporary relief by the injection of extract of the posterior lobe suggests that the posterior lobe plays a part. In cases of tumor the blood pressure is generally decreased Somnolence is a common sign of pituitary disease The patient has a tendency to drop off to sleep in the day but can be easily awakened. The somno lence is not to be confused with the stuporous condition associated with brain tumor or other disease causing an increase of the intracranial pressure. It is probably not a direct pituitary sign as recent observations have demonstrated in the region of the third ventricle the existence of a center which con trols or regulates sleep and this region may he pressed upon by tumors of the pituitary gland

PRESSURE SYMPTOMS

In most pituitary diseases the primary lesion is a tumor capable of exerting compression on surround ing structures and thus producing other symptoms Headache is variable. In some advanced cases it is absent while in others it is one of the earliest and most prominent symptoms. When the tumor is within the sella the headache is probably due to pressure upon the dural lining and is referred to the temples in such cases it is a dull aching or severe hursting pain which is often continuous for hours or When the tumor is outside of the sella or extends from the sella the headache is more severe but less constant due to increased intracranial pressure and generally referred to the forehead or behind the eyes it may be very intense in the morn ing and accompanied by cerebral comiting

VISUAL SYMPTOMS

Visual symptoms are common but vary with the position of the tumor the direction of its growth and the various anatomical relations of the parts in volved Upward pressure generally first involves the optic fibers from each nasal half of the retina. In other cases the nerves are longer and the chiasm more posterior so that one or the other nerve is in volved first more rarely the chiasm is placed ante mor to the sella when one of the optic tracts may be affected first A pure bitemporal hemianopsia is rare as the decussating fibers seldom suffer alone and they are all affected only when the tumor has reached a considerable size The earliest field defect is usually one upper temporal quadrant This defect gradually extends toward the macula and invades the lower temporal quadrant The opposite eye may be affected simultaneously or later

In another common type a scotoma at first partial but gradually becoming larger is found on the temporal side of the fixation point. This gradually extends into the upper temporal quadrant and may invade the nasal side to some extent. In other cases there may be a gradual and general increasing contraction of the peripheral temporal field or merely a progressive diminution of vision throughout the whole temporal field When the chiasm is more posterior the pressure first affects one optic nerve a diminution of the central vision often rapidly progresses to blindness of the eye, increasing pressure produces a temporal hemianopsia on the opposite side or the nerve is compressed so that central vision suffers If the chiasm is anterior a homony mous hemianopsia to the opposite side may result but this is uncommon. In association with the loss of vision the disks generally show a progressive pallor but they may retain their normal color for a considerable time after the occurrence of the field defects I apilloedema is rarely seen in cases of simple pituitary tumors

OCULAR PALSIES

Duplopia strabismus and ptosis are not un common. One or all of the muscles supplied by the third nerve may be weak. The external rectus is commonly weak hut the fourth nerve generally remains unaffected. It has been stated that ocular palsies occur only when the tumor has extended intracranially or hes outside of the sella. While they are more common under such conditions the author believes that they occur with intrasellar growths which may hulge lateralward and compress the nerves.

TRIGEMINAL PAIN

Trigeminal pain or numbness accompanied by sensory defects may occur but probably does not when the tumor lies in the sella. Its presence is indicative of extrasellar extension or an extrasellar lesion.

ANDSMIA

Anosmia is rare but may occur when an extra sellar neoplasm presses the olfactory tracts or the area olfactoria

CEREBRAL SYMPTOMS

Cerebral symptoms are surpnsingly rare in view of the amount of compression which may occur There may be a mild hemiplegia. This is indicated only by an extensor plantar reflex due to compression of a cerebral pediuncle and therefore is associated with vertirasellar tumors. Damage to the mestal aspect of the temporal lobe may produce uncriate attacks.

THE PITUITARY AND THE HYPOTHALAMUS

It has been shown that in the hypothalamus there exist centers which under experimental conditions at least can affect the activity of the sympathetic system also that this region is concerned with the regulation of temperature and metabolism the secretion of urine the control of sleep and the function of the sex glands Erdheim first suggested that disturbance of the hypothalamus is the cause

of many of the symptoms attributed to the pituitary gland, and this theory has heen supported by chinical and experimental evidence. Several physiologists hold that the pituitary is not essential to life and that its complete removal may not he followed by characteristic symptoms. It seems definitely established that polyuria and temporary gly cosuna may he produced by lesions of the tuber cancreum, and some claim that adiposity and regressive changes in the sex glands may result from injury to the hase of the hrain when the pituitary gland remains intact

Numerous climcal cases reported within the last few years tend to substantiate these experimental findings. If may be that the 'pituitary 'symptoms resulting from lesions of the brain are the result of blocking of the pituitary secretions which normally reach the cerebrospinal fluid through the infundabulum. It seems, however, that certain clinical syndromes must be correlated with pituitary disease Evidence of acromegaly may precede evidence of pressure upon the brain and is clearly associated with nn overgrowth of the interior lobe. It seems also that functional and anatomical sexual changes are of pituitary origin. Many of the less marked sexual disturbances may be the result of a disturbances may be the result of a disturbance of pituitary function.

TREATMENT

When the most prominent symptoms are of a hypopituitary nature the most rational treatment is the administration of the active substance of the gland In some cases of adiposity the administration of thyroid has resulted in at least subjective improve ment and in cases of large idenomata it his repeat edly improved vision and reduced the headache There is no convincing evidence that suprarenal testicular or ovarian preparations have any effect when they are administered by mouth. When the most urgent symptoms are due to pressure surgery or irradiation is necessary Unfortunately many cases reach the surgeon only when the tumor is quite large or has hurst into the intracranial cavity When this has occurred only temporary relief of pressure can be expected The author favors the fronto temporal approach

Sirhing results have been reported also from \times ray treatment Irradiation is claimed to he free from danger. This may be true so far as hite is concerned, but the author knows of cases in which it has been followed hy an increase of hindness and other pressure symptoms. Aevertheless, he helieves that the method deserves a further trial especially in the cases of patients who are poor surgical risks.

GILBERT C ANDERSON M D

Bérard and Dunet Meningoblastoma Treated by Deep Roentgen Therapy (Meningoblastome traité par la radiotherapie profonde) Lyon chir 1916 xxiii 621

In February, 1924 the authors reported two cases of hemicraniosis, a hyperostosis of the bones of the skull secondary to a tumor of the meninges. In one

of these cases the disease hegan in 1920 with time faction of the left frontopanetal region. The first physician consulted gave an intensive specific treatment which had no effect. There was a rapid decrease in vision with the development of very marked exophthalmos and violent headaches. A diagnosis of osteosarcoma was made and the patient sent to the cancer station for roentgen treatment.

Roentgenography showed a tumor occupying the upper, external and postero external walls of the left orbit The left frontal and sphenoidal sinuses were intact During October, 1023, the patient was given roentgen treatments, one in the left lateral region of the orbit, one below the orbit, and one above the orbit. A slight roentgen dermatitis de veloped hut disappeared in six months. At the end of six months most of the symptoms had begun to decrease the headache and dizziness had ceased. the temporoparietal swelling had decreased (it never disappeared entirely) and there was marked im provement in vision. The patient is now able to sew and read a little with the left eye with which, for several years, she had not heen able to do more than distinguish between light and darkness. The exophthalmos was not very much improved

AUDREY G MORGAN M D

Tavernier, L Paradoxical Results Immediately After Operations for Facial Paralysis (A propos des resultats puradoxaux immédiats apres les opérations pour paralysie faciale) Bull et mém Soc nat de chir, 1940 lin 99

A soldier with complete inicial paralysis from a mastoid hullet wound suffered from conjunctival irritation due to nashlity to close the cyclids. The wound was well healed. As the loss of facial nerve substance in the wound prevented local repair Thyeriner anastomosed the facial with the hypoglossal nerve.

The incision extended from in front of the sternocledomastoid to the retro nurcular furrow and the great horn of the hyoid. The facial nerve was sectioned near the stylomastoid formen. The hypoglossal was easily found without any freeing of the neurovascular cord at the point where it crosses the internal carotid. The hypoglossal was unsheathed and a hundle equal to about two thirds of the nerve trunk was cut, reversed upward, and sutured to the peripheral end of the facial nerve by a very fine linen thread.

The patient noticed closure of the eyelid as soon as he awoke from the anæsthesia. The eyelid could not he shut voluntarily nor hy attempts at contraction of the face, but when the eye looked downward the lid fell, guing the impression of a passive fall from simple relaxation of the levator palpehra. The eyelid on the affected side closed gently but involuntarily after the eyelid of the other eye. Before the operation the lids were never closed even in sleep.

The operation did not modify the paralysis of the remainder of the facial nerve distribution. Closure

of the evelid permitted healing of the conjunctivitis The result has persisted for seven years since the operation The hypoglossal facial anastomosis im mediately modified the state of the evelid muscles although no regeneration of the facial nerve oc

curred

Tavernier attributes the phenomenon not to the suture of the hypoglossal and facial nerves nor to the section of the facial which was already severed several millimeters higher but to some action on the sympathetic fibers in the operative field The superior sympathetic cervical ganglion was not involved. The pericamtid plexus was touched only in an extremely superficial way because the hypoglossal was located and unsheathed casils without a search There was a greater chance of an effect on the sympathetic fibers accompanying the stylo mastord artery because isolation of the lacial nerve with the surrounding vessels was difficult

Botreau Roussel has reported immediate recovery of movements in facial paralysis after removal of the superior cervical sympathetic ganglion

WALTER C BURKET M D

PERIPHERAL NERVES

Jacobovici and Baumgartner The Technique of Phrenicotomy and Resection of the First Rib in the Surgical Treatment of Pulmonary Tuberculosis (La technique de la phrénicotomie et de la résection de la première côte dans le traite ment chirurgical de la tuberculose pulmonaire) Bull et mem Soc not de chir 1926 lu 994

In the procedure described the supraclavicular region is well exposed and the thorax elevated with the scapula free the shoulder depressed the head in extension and the face turned toward the opposite side A U shaped incision is made from the acromioclavicular articulation along the external half of the clavicle and along the posterior border of the sternomastoid to the level of the hy oid bone After the superficial cervical fascia is broken through and the middle together with the omobioid is divided the brachial plexus and scaleni are exposed This permits recognition of the phrenic nerve and the first rib

The phrenic nerve including its roots and anastomoses is dissected. Iacobovici believes that for complete hemidiaphragmatic paralysis all of the anastomoses and especially the anastomosis to the subclavian nerve must be destroyed and he sec tions them at the time of exposure Baumgariner however considers that dissection of the anasto moses is unnecessary and only prolongs the anaes thesia and operation unduly since evulsion of the nerve for a distance of 15 cm must destroy them

In resection of the first rib Iacobovici pratects the trunks of the brachial plexus by retracting them The insertion of the underlying scalenus muscle is rongeured free A portion about 4 cm long (from the costotransverse ligament behind to the crossing with the clavicle in Iront) is laid bare Complete

isolation of the rib requires care especially to avoid injuring the venous plexus posteriorly and the pleural dome within The rib is cut as near as possible to the costotransverse articulation and lifted up and a portion about 4 cm long is resected In resection of the rib further anteriorly there is danger of injury to the subclavian artery

After rib resection and partial repair of the musculo aponeurotic layers the two roots of the phreme are divided and the nerve is avulsed accord ing to the classical procedure. The operation is accomplished without bleeding lacobovici post pones nerve avulsion to the end of the operation in order that at the moment of avulsion when accidents may occur the patient will not be profoundly

angesthetized

Phrenicectomy is of value in tuberculosis of the base or apex of the lung to place the lung at rest and to facilitate the collapse of a cavity. If the cav ity is kept gaping by peripheral adhesions the ascen sion of the diaphragm permits some degree of collapse of the cavity walls but the release of an apical adhesion and effacement of the lung apex by resection of the first rib greatly improves the

therapeutic result I bremeectomy as a preliminary to thoracoplasty (Sauerbruch) prepares for collapse of the discased lung decreases the severity of the accidents asso ciated with extensive rib resection, and lessens the total strain thrown on the opposite lung Total thoracoplasts requires resection of the first rib. As this is difficult by the posterior route its accomplishment during preliminary phrenicectomy renders the secondary thoracoplasts easier and more effi-

cacious Phrenicectomy combined with rib resection through one incision is of value in grave forms of pulmonary tuberculosis in which surgical interven tion must be minimal

In a case of tuberculosis in which thoracoplasty was contra indicated by the evolution of the disease Berard performed a phrenicectomy and short para stemal resections of the three upper ribs through one WALTER C BURKET M D incision

Delageniere II Reparative Surgery of the Per ipheral Nerves (Chirurgie réparatrice des nerf periphenques) Paris chir 1926 tvill 163

Delagentere has done 144 ne ve sutures with 124 completely successful results sixteen partially suc cessful results (almost all in mixed nerves) and four failures In general the sooner the suturing is done after the accident the more rapid the repair and the return of physiological function However it is never too late to restore a nerve. Delagemere has had completely successful results in cases op erated upon twenty eight months after the acci

Generally the repair is slower after complete anatomical section than after physiological interruption from crushing Motor nerves regenerate more quickly than mixed nerves

The differentiation between anatomical section and physiological interruption is sometimes impossible. In such cases it is better to wait for three or four months to determine whether physiological function will not be restored. If the wound is recent it may be a question of revivification rather than of section, but if the wound is old there will be a nodule on each end of the nerve and quite extensive.

resection may sometimes be necessary As great economy as possible should be exercised in resection to avoid difficulty in suturing but the resection must be carried into normal nerve tissue Particularly in mixed nerves care must be taken to unite each fasciculus of the central end to the corre sponding one of the peripheral end Sometimes a small vessel will be seen on the surface which will serve as a guide. The author uses very fine needles and fine silk for suture taking care to pass the threads only through the sheath and not through nerve substance The two ends should be brought only into contact without overriding. The sutures must be non absorbable and strong enough to keep the ends in contact during the process of repair This may be aided by immobilization of the limb

If the resection is extensive enough so that the ends cannot be brought together easily fleuon of the limb may help but if there is much of a gap it is better to resect a piece of bone or suture in two stages leaving a long enough piece of cicattrical tissue to fill the gap and resecting it at a second operation after it has bad time to serve as a guide to growing nerve fibers. If nerve grafting is necessary to fill the gap, autografts are to be preferred it is possible to fill a gap of as much as 13 cm in a mixed peripheral nerve with a double fragment of musculocitaneous nerve from the leg of the patient

with perfect functional results

The author sees no advantage in enveloping the nerve in tubes of aponeurosis or various other materials. This procedure is not only useless, but interferes with the success of the suture. The only useful precaution is the placing of the sutured nerve in healthy muscle tissue, preferably an interstice in the muscle Drainage is not necessary unless a bone callus has been opened in the liberation of the nerve The skin is sutured with horsehair and if necessary the hmb put in plaster to hunt its move ments to the desired degree A nerve suture does not cause any pain after the operation. If the limb has been placed in flexion to safeguard the suture the flexion should be maintained for fifteen days or preferably a month. When the plaster has been removed the patient should be allowed to recover his movements gradually without massage or electricity. In a comparative study of series of cases the author found that electricity does not belp in the regeneration of the nerve

He finds that simple liberation of the nerve from scar tissue is rarely effective. In 113 nerve liberations he performed during the war the results were not nearly so good as those of resection and suture

AUDREY G MORGAN M D

SYMPATHETIC NERVES

Gabrielle and Rouquier Periarterial Sympathec tomy of the Brachal Artery for Severe Ray naud a Disease with Cyanotic Eclema of the Hand and Phlyterbuiles of the Fingers Recovery (Sympathectome périartérielle humérale pour maladie de Rayanad a forme grave accede ne cyanotique de la main et phlytche des dogts guffrson) Lyon chir 1926 viii 6,8

The patient whose case is reported was a soldier ary years of age who had had symptoms of Raynaud's disease for years. He stated that his hands ears and nose had always been extremely sensitive to cold Recently the disturbance had rendered his left hand useless. Both the palm and back of the band were swollen and hard so that no indentation could be made. The skin was violet colored. On the dorsal surface of the two last phalanges of the index and middle ingers there were little zones of

necrosis of the epidermis

The fingers as well as the hand were infiltrated Active movements of the fingers were impossible and movement of the wrist was impaired. There was no sensation in the hand. Sensation became normal 3 or 4 cm above the radiocarpal joint. The left hand was cold and there was a considerable difference in the temperature of the right and difference in the temperature of the right and sides. The patient was in an almost constant condition of neuro-tegetative disequilibrium the slightest peripheral stimulation caused considerable variations in maximum and minimum pressure.

Sympathectomy of the left brachal arrery was performed from the origin of the superior profunda to the elbow. The arrery was denuded as completely as possible. The vessel became filiform and almost immediately the color of the back of the band changed from violet to a rose color and the local temperature rose considerably. When the patient was put to bed his hand was warm and after forty eight hours the ordern had disappeared completely and movement and sensation were normal. Arterial tension was practically the sympathic properties of the sense on both sides though possibly a hitle decreased on the left side. The immediate result is excellent, but as the patient is still sensitive to changes in temperature, and particularly to cold some reserve is necessary in the prognosis as to the not result.

AUDRES G MORGAN M D

MISCELLANEOUS

Guleke The Clinical Aspects of Neurinoma (Zur Klinik des Neurinoms) 50 Tag d deutsch Ges f Chir Berlin 19 6

The term 'neumoma is applied to a peculiar form of tumor having its origin in nerve tissue. Its pathogenesis and position among neoplasms are still matters of con iderable controversy among pathologists.

The author reviews the clinical aspects of neuri noma on the basis of the sixty cases reported in the literature to date and a series of cases that he him self has had the opportunity to study

Neutroomata may be divided into three groups. Those of Crup 1 have their origin in the brain. The author has had five cases in which the tumor occurred in the cortex and hase of the cerebrum, one case in which it occurred on the paretal lobe and four cases in which it involved the accisticus. The symptoms of the cerebral neutroomata were the same as those produced by other brain tumors.

Neumomata of Group occur within the spiral canal or close to the vertebral column. The author has obserted two cases of intradural temors. In these the tumpr was in close relationship to the posterior toots of the spiral cord showing a prediler tion for these structures as compared with the an terior roots and from this side green katerally along side the transverse processes so that in the roentgen picture it appeared as an hourglass shaped tumor in the mediastium. In two other cases the tumor was close to the cervical vertebra originating in the fourth cervical vertebra and growning laterally.

Neumorman belonging to Group 3 occur in the peripheral nerves. In one of the cases reviewed a tumor the size of a walnut occurred in the senate nerve and is its growth separated the fibera of the nerve. In another case the tumor had its origin in

the peropeus perve

The symptoms are as varied as the locations of the tumors. I we thirds of all neurinomata are found at the points of cut of the nerves. The growth of neurinomata originating from the posteror roots of the spania (optima occurs through the intervertebral foramina this explaning the characteristic hourshase share of these neonlassis. In spite of the variation in the symptoms a location Anatomically, however, it is very difficult to differentiate from neurofibroms and under certain conditions from sacroma This is true especially because the larger neuronomata tend to develop tysis in their centers and, like neuro fibromata (Recklinghausen's disease), neuronomata may be multiple. The same tumor may show neuronomatous neurofibromatous and sarcomatous areas

areas
In general neurinomata are to be regarded as beings. If there is any suspicion of sacroma the treatment must be radical but it should be borne in mind that intraducts accomate are usually being the program of the president should be begin as the president should be begin as the president should be begin as the president should be preformed in one stage and should not be juster rapited if in the course of its removal, the tumor is discovered to be percentaged.

In the discussion of this report BORGHIMBOT (Bitin) stated that he had seen nine car so in orumona in three of which the tumor had its origin in the central nervous system. In cases of aussizions tumor he has been using a less radical procedure than was formerly advocated and has thereby improved the prognosis. He called attention to the possibility of the changing of a neurinoms into a neurotherma or sarcoma. In cases of tumor arizing from the periph eral nerve the surgeon must decide whether the tumor should be merely shelled out of the nerve substance or resected with the nerve. About 12 per cert

of neurinomata undergo malignant degeneration Strettings (Z)

SURGERY OF THE CHEST

CHEST WALL AND BREAST

Braine J F C, and Massie, C Carcinoma Mamme The Results of Treatment Guys Hosp Rep I and 1926 level, 484

The data upon which the conclusions in this article are hased were obtained from the study of 722 cases of cancer of the hreast which were treated during the thirteen year period from 1909 to 1022 The authors' purpose was primarily to determine

the results of surgical treatment

Of eighteen patients not operated upon, seventeen lived thirty one months after the appearance of the tumor Of 704 patients subjected to operation twenty three died shortly after the operation Of the 254 patients who died seventeen had a partial removal of the breast and survived for an average of fifty three months, sixty six had an incomplete removal and survived for an average of forty six months, and 171 had a complete removal and sur vived for an average of thirty one months. The authors conclude that in late cases in which there is little possibility of eradicating the disease entirely the less extensive the operation the longer the natient s survival

The histological study of the tissue offers little or no aid in the prognosis Glandular invasion however, is of considerable significance Of the patients with involvement of the glands, 45 8 per cent survived for three years and 188 per cent for five years Of those without glandular involvement, 86 per cent survived for three years and 46 per cent

for five years

Of the 338 verified cases, 195 showed metastasis In 103, the metastases occurred in the skin or a ccar in eighty six in glands in twenty three, in

bones and in sixty two, at other sites "That more than half of the total number of recurrences should occur in the scar and surround ing skin is surprising and points to an inadequate

removal of the superficial tissues at the time of operation"

Of the patients subjected to immediate or prophy lactic irradiation, 66 per cent were alive at the end of three years and 31 per cent at the end of five years while of those not so treated, 50 per cent were alive at the end of three years and 273 per cent at the

end of five years after the operation The chest wall and axilla were divided into five

areas and each area was irradiated three times a week for six months or longer. The voltage used was 75 kv, and the skin target distance 20 cm A 5 oz lead skin filter was employed This super ficial irradiation applied immediately after the operation has definitely improved the prognosis PAUL W SWEET M D

Postoperative Irradiation of Breast Borak J Cancer Radiology 1026 vii 471

Postoperative irradiation of hreast cancer has been used to a limited extent at the Holzknecht chinic by giving comparatively small doses at inter vals over a considerable period of time. The results indicate that it is of definite value. According to myestigations made with reference to the cases in which postoperative irradiation was carried out during the years 1919 and 19-0, the results have been as follows

Of twenty six patients receiving postoperative irradiation in 1919, nine (34 per cent) were still living and free from recurrence in 1926 more than six years after the operation Of the thirty seven patients so treated in 19 o seventeen (46 per cent) were well after the lapse of five years Therefore of the total number of sixty three patients twenty six (42 per cent) were still living and free from recurrences and metastases after from five to six and a half years Six patients (10 per cent) had died without any recognizable recurrence of the cancer The remainder could not be traced

On comparing the operative results as shown by statistics collected from European and American literature, which reveal an average of 35 per cent of patients hving for three years and 25 per cent living for five years without a recurrence it is evi dent that the postoperative irradiations brought about an improvement in the results of the radical

operation

The number of cures that can be effected by operation in cases of movable tumor confined to the breast without involvement of the audlary glands is so considerable provided the operation is radically done that it is a priors improbable that the number would be increased to any appreciable extent by postoperative irradiation

Postoperative irradiation probably has its great est field of usefulness in cases which come to opera tion when the tumor is adherent to the overlying skin and there may he involvement of the avillary glands In these the operative results are greatly in need of improvement and irradiation has improved them The results reported from different clinics are cited

Cases with involvement of the supra clavicular glands cannot be regarded as particularly suitable for radical operation They should therefore be considered inoperable and treated only with the roentgen rays or after an operation that falls short of being radical, should be subjected at first to intensive roentgenization and later to irradiations gradually diminishing in intensity. In any event, the technique for irradiations that is eminently suc cessful for patients undergoing a radical operation

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in the second stage does not appear to be so effective in patients who have reached the third stage ADOLPH HARTENG, M D

TRACHEA, LUNGS AND PLEURA

Lemon W S Bronchiectasis in Childhood Med Clin A 1m 1026 x 531

Between the years 1920 and 1926 15 500 children under 14 years of age were examined at the Mayo Clinic and a diagnosis of bronchiectasis was made in the cases of sixty three Fifty nine of the cases of bronchiectasis constitute the basis of this report

The etiological factor was the intrinsic damage due to inflammatory insult. Cases due to stenosis and infection from foreign bodies in the bronchus were not included. In no instance was the cause an extrinsic effect such as stenosis from the pressure of a malignant growth aneurism gumma or lymphomatous disease

Twenty seven patients were males The youngest was 17 months old and the oldest 14 years The most common precursors of the bronchiectasis were whooning cough measles and disease of the upper respiratory tract including colds bronchitis lobar pneumonia and bronchopneumonia The relation hip of disease of the nose throat and accessory sinuses was carefully studied. Bronchiectasis ap peared as a primary disease in fully as many cases as sinusitis. In forty six cases in which the records were complete it seemed that sinusitis was either the cause or the result of the bronchiectasis

In most cases the symptoms were cough expectoration hamorrhage and asthenia. The cough was variable and the character of the sputum de pended largely on the pathological changes in the The most important observation was the frequency of hemorrhage 14 per cent of the pa tients having had more or less bleeding. This per centage is smaller than in adults with the disease It was found that hæmorrhage might precede the other symptoms of bronchiectasis by many months Hamorrhage is much more common in bronchiec tasis than in tuberculosis. The most common complications were disease of the upper respiratory tract pneumonia pleurist emprema and its com plications and abscess. Abscess of the lung was the least common. In one case it acted as the cause of the bronchiectasis but in two others was the sequel of the ext ting chronic suppuration. By a study of the nail fold capillaries an attempt was made to discover the cause of the chibbing of the distal phalanges. This however proved fruitless The roentgenological data showed that in 70 per cent of the cases either definite or suggestive find ings corresponded to the clinical signs indicating

the degree of damage and the progress of the case The general health height and weight of the patients were below normal and the pulse and tem perature usually above normal. The hæmoglobin and erythrocytes were within normal limits but the leucocyte count was invariably high

Smith D T Experimental Aspiratory Abscess trek Surg 1927 XIV 231

Smith produced pulmonary abscesses in mice guinea pigs and rabbits by the intratracheal inoculation of material scraped from the alveolar border of the teeth of patients suffering from moder ately severe pyorrhora

The same morphological types of organisms were recovered from these experimental abscesses as were found in both postoperative and non-operative

pulmonary abscesses in man The author concludes that the aspiration of in fected material from the teeth and tonsils probably accounts for the greater number of cases of pulmonary abscess but a small number may result from infected emboli from the upper respiratory passages

John J MALONEY M D

Dufarier C Hydatid Cyst of the Left Lung Extirpation Closure without Drainage Re covery (Lyste hydatique du poumon gauche exterpation Termeture sans drainage guérison)
Bull et mém Soc nat de chir 1926 lis 1220

In a case of hydatid cyst of the left lung physical and \ ray examination revealed an encapsulated accumulation of fluid Exploratory puncture was followed by a severe anaphylactic reaction with syncope a urticarial eruption arthritic pain and

Operation was performed under general anxis thesia. The pleura was incised and the cyst in the lung exposed The contents of the cyst were evacuated the sac was dissected out and the cavity closed. Recovery was complicated by a februle course and the development of a pneumo hydrothorax which required puncture Healing finally took place and a subsequent \ ray examina tion showed only a haht lemon siz d shadon mark ing the site of the pocket from which the cyst had LEO M ZIMMERMAN M D been removed

Sherman J erman J Primary Carcinoma of the Lung California & Hest Med 1927 xxv1 40

Metastases in the mediastinum from extrathoracic carcinoma are not rare but primary carcinoma of the lungs is uncommon. In a study of the symptoms produced by the latter condition, the author reviewed over 600 cases He reports two cases in detail

Early diagnosis is difficult because the symptoms produced by the carcinoma closely simulate those produced by tuberculosis influenza and cardiorenal cardiac and other conditions

Primary pulmonary carcinoma may arise from (1) the epitbelial lining of the bronchial mucosa (2) the mucous glands or (3) the epithelium lining the alveole Ewing classifies the alveolar type into (1) the diffuse and (2) the nodular

The symptoms are discussed in detail. No sign diagnostic of the condition in its incipiency has been noted The later stages are associated with hoarse ness and laryngeal cough produced by paralysis of the recurrent laryngeal nerve. The condition is recognized earlier by bronchoscopy than by X ray examination The treatment suggested is cruteriza tion, which is the one method by which the pain may be relieved Radium and the \ rays are of no a vail PAUL W SWEET M D

Jackson B H The X Ray Dingnosis of Empyema

Allantic W J 1926 vxv 135

Jackson C The Bronchoscope as an Aid in the Diagnosis and Treatment of Pulmonary In

fections Itlanti W J, 19 6 xxx 139 Butler E F The Surgical Management of Em prema Itlantic W J 19 6, xxx 142

B H Jackson describes the normal appearance of the thorax and its contents discusses the differential diagnosis of chest lesions as shown by the \ray, and explains the upward curve of the fluid line in partial effusions

It is impossible to make a diagnosis of empyema by X ray methods alone Fluid can be demon strated in the pleural cavities roentgenologically but purulent serous sanguineous and serofibrinous pleuntic effusions cannot be differentiated

- A diagnosis should never be made at once from The roentgenological findings fluoroscopy alone must always be considered with all other clinical data obtainable The clinician and roentgenologist should work in conjunction and correlate their findings
- C Jackson summarizes the advantages of bron choscopy in pulmonary infections as follows

The interior of the lung may be inspected safely

- 2 The orifice of the bronchus leading to any one of the five lobes can be quickly identified and any abnormality in the lumen, mucosa, or secretions thereof can be determined
- 3 Any departure from the normal in the secre tions, the mucosa the lumen, or the form and movement of the bronchial walls can be noted with all the certainty of direct vision
- 4 Obstructing masses of secretion can be removed and the subjacent bronchi, fistulæ or cavi ties explored
- Specimens of tissue and uncontaminated speci mens of secretions can be removed with precision
- 6 The presence or absence of lesions can be determined not merely with regard to the right or left lung but with the utmost precision of localiza tion as to lobes and, except in infants, to portions of lobes
- 7 Pneumonograms furnishing accurate, localized, and graphic data of the utmost diagnostic value can be made of any particular region Broncho scopic inspection reveals the pathological area into which bismuth subcarbonate or lipiodol are to be introduced If obstruction is present it can be dealt with bronchoscopically so that the distal region can be reached with the opaque material

8 In diagnosis not only the direct information but also the indirect information yielded by the bronchoscope is helpful

a All of the diagnostic information mentioned may be obtained in the case of any patient whose mouth can be opened

10 Anæsthesia is unnecessary, but in the cases of adults local anæsthesia may be induced if desired

Diagnostic bronchoscopy in pulmonary abscess, bronchiectasis, and tuberculosis is discussed to gether with its indications and contra indications

The bronchoscopic treatment of lung suppuration following tonsillectomy, residual suppuration, em pyema, bronchial stenosis, benign growths of the lung and malignant disease of the lung is described

BUTLER, discussing the surgical treatment of empyema, deals more with the fundamental prin

ciples than with special technical points

The effect exerted by drainage operations on vital capacity depends upon the presence or absence of adhesions between the visceral and parietal layers of pleura Of great importance is the fact that the pleura reacts differently to the various organisms which are commonly encountered in post pneumonic empyema

The danger to life demands conservatism in the initial approach, but when once this risk begins to decrease two other risks loom large, that of chronicity and that of recurrence Conservatism does not meet the requirements here, radicalism is more effective

Irrigation with antiseptics and continuous suction are valuable procedures, one bringing chemical aid and the other mechanical aid However, the prob lem is surgical Obliteration of the cavity may become necessary

In conclusion, Butler says it is necessary to study each case of empyema as an individual problem, to discover the etiological factors the responsible organism and the site of the cavity, and to know all that can be learned about pleural adhesions When the danger to life is great, the surgeon should be cautious but as this risk decreases he should become bold CARL R STEINKE, M D

HEART AND PERICARDIUM

Pribram The Operative Treatment of Mitral Stenosis (Operative Behandlung der Mitral stenose) 50 Tag d deutsch Ges f Chir Rer'in. 1926

Pribram reports the case of a 38 year-old woman who, twenty three years previously, suffered an attack of articular rheumatism and thereafter de veloped symptoms of mitral stenosis Kraus, whom the patient consulted first was of the opinion that there was no possibility of improvement under medical treatment and that the prognosis was hopeless The patient therefore concluded to submit to operation

The operation was performed under ether anæs thesia A longitudinal incision was made over the sternum with resection of the costal cartilages The sternum was divided in the midline down to the xiphoid process and the two sections were separated and held apart. The mediastinal pleura was pushed out of the field A slight tear which occurred was immediately repaired by suture. The pericardium was then split and the left ventricle fixed by two anchoring sutures The punch like instrument was then introduced into the left ventricle through the muscular wall which closed about its rounded stem and allowed hardly any bleeding Guided by the fingers the instrument was then brought up against the stenotic tissue of the mitral valve and a hole was punched through. The instrument was then immediately withdrawn the wound in the heart closed and the external wound sutured

A change in the heart was noted at once The stenosis was changed into an insufficiency. A presystolic murmur began The blood pressure which had been previously very low (90) rose to 150 The general condition was good On the third day lever began By the fifth day the temperature had risen to 40 degrees C and on the sixth day the patient died Autopsy revealed as the cause of death an nortic endocarditis There was no sign of a recent

endocarditic process on the mitral valve This case demonstrates that the operation de scribed may be performed successfully but should be undertaken only when there is no possibility of

an endocarditic process

In the discussion of this report LOERTE stated that he doubted whether any benefit was to be derived from the changing of a stenosis into an insufficiency Pribram replied that in his opinion the prognosis of insufficiency is more favorable than that of stenosis

SCHOENBALER reported that in a recent trip to America he had the opportunity to see four cardiac operations Of the four patients only one, a girl of 16 years survived He believes that patients with aortic stenosis are more favorable subjects for the operation than those with mitral stenosis In mitral stenosis the musculature of the left ventricle upon which is thrown the increased burden created by the insufficiency is atrophic and it is questionable whether in the majority of cases it will respond to the new requirements. In north, stenosis on the other hand the musculature is hypertrophic and will therefore respond more easily to increased demands upon it STETTINER (Z)

ESOPHAGUS AND MEDIASTINUM

(lerf I II Foreign Bodies in the Csophagus Ann Otol Rhird & Laringol to 6 xxxv 1000

The author reports cases illustrating the chiel points in the etiology symptomatology diagnosis, and treatment of foreign body in the esophagus

A history of coughing gagging or choking when an object was held in the mouth is always suggestive of foreign body especially in the cases of children playing on the floor

A negative roentgenological opinion of opaque foreign body in the alimentary canal cannot he given unless the studies include the entire food tract

from the nasopharany to and including the tuberosi ties of the ischium After the removal of one ob ject, multiplicity of foreign bodies should be ruled out by roentgenography

The regurgitation caused by a foreign body in the cesophagus is frequently regarded as vomiting and olten leads to a diagnosis of gastric disturbance

Non opaque foreign bodies can be diagnosed roentgenologically only after the injection of opaque material Such injections should be made whenever the symptoms are suggestive and the first roent genograms are negative

Difficulty in swillowing is the most common

symptom of esophageal disease

The passage of a bougie into the stomach does not rule out foreign body in the ecsophagus

Inability to swallow saliva and the presence of pyrilorm sinuses filled with secretion indicate com plete esophageal stenosis

Pain may be produced by the impaction of a large object in the esophagus penetration of the exsophageal wall or secondary inflammation. It

cannot he relied upon to localize the obstruction Esophageal foreign bodies may not only interfere with swallowing but also because of their shape size or nature may give rise to signs and symptoms referable to the air passages In one of the author's

cases dyspnæa was an alarming symptom When tacks or other small foreign bodies lodge in

the esophagus penetration of the esophageal wall usually occurs with a variable degree of perioso

phageal infection The prolonged sojourn in the ersophagus of large arregularly shaped objects may lead to tissue de

struction ulceration and perforation Immediately after the removal of a foreign body

the swallowing function should be tested The persistence of symptoms referable to the ersophagus in the presence of negative roentgen ray

findings calls for a diagnostic asophagoscopy JEROUE R HEAD M D

Roentgen Diagnosis of Foreign

Manges W F Bodles in the Esophagus im J Roentgenol 1927 THE 44 Foreign bodies lodge in the resophagus because

they are too large to pass because they become embedded in the mucous membrane or because the orsophageal lumen is narrowed. In some cases they may perforate and project into the peri asophageal

Large foreign hodies causing complete or partial obstruction are more common in children than in adults whereas small slender foreign bodies which become embedded are more common in adults. The most common large foreign body is a coin and the most common small embedded foreign body a small fragment of bone The perforating foreign body is very rare. In cases of stricture the cause is most olten a piece of meat The most common location for all ersophageal foreign bodies to lodge is at or just below the level of the suprasternal notch

In the roentgenological examination, the following should be insisted upon (1) the removal of all clothing, (2) examination of the entire tract from the nasopharynx to the anus, (3) exposures made in both the anteroposterior and the lateral position, and (a) the best quality of roentgenograms

To determine the site of the large, non opaque foreign body, a fairly thick watery mixture of bis muth subcarbonate should be used to show either a filling defect or a deviation of the stream In examination for the small, slender, non opaque foreign body that hecomes embedded, the patient should be made to swallow a wet No oo capsule filled with bismuth subcarbonate. When there is a history of the swallowing of glass, it is unwise to use capsules or any hard substance. The greatest width of escophageal foreign bodies is in the lateral direction, while that of the tracheal foreign body is in the anterpopseteror direction.

The complications and sequelæ that may arise from foreign bodies in the exophagus are (1) acute hunger and thirst (2) the aspiration of particles of food into the trachea with subsequent pulmonary infection, (3) injury is the exophageal wall with subsequent stricture and (4) peri exophageal in fection

Grundles H. Halcock, M.D.

Rossing T The Technique of My Method of Antethoracic Esophagoplasty Surg Gynec & Obst, rg 6, zlm 781

Rossing discusses the various esophagoplastic methods used for the past twenty years all of which are based on the conviction that the new gullet must be capable of penstaltic motion. In his opinion, penistalisis is not necessary as in most successful cases if it is present at all it very rapidly cases whether the new cosphagous was formed from the jegunum the colon, or the stomach. Moreover Gluck and Torck is cases have shown that a simple rubber drain uniting an esophagostomy with a gastrostomy will function satisfactorily for many years. These considerations led Rossing to work out a simple and less dangerous skin plastic method which he has employed successfully in four cases. The operation is done in four stages.

First stage Gastrostom, The small portion of the anterior wall of stomach that is used is drawn up through an opening in the left rectus muscle and an opening of a size to admit the largest Pezzer drain is made The button of the drain is fastened tightly to the anterior wall of the stomach

Second stage (Esophagostom: This is per formed through an oblique incision along the sternomastoid. The esophagus is freed, brought up to the skin incision and cut between clamps the inferior end then heing brought out through a small incision in the left superclavicular fossa, fixed to the skin and drained with a tight rubber drain. The oral esphaged end is sutured to the lower part of the oblique incision, and a rubber tube is introduced into the esophagus from the mouth and led out through the esophagostom.

Third stage The formation of the new exophagus Two parallel skin incisions are made, the distance between them being the circumference of the new organ and the skin is dissected inward so that it can he united in the midline around a drain. The drain is later removed. The two skin incisions meet above the exophagostomy at the upper end, while at the lower end they correspond to the plane of the gastrostomy but do not meet around it as the gastrostomy but do not meet around it as the gastrostomy must be kept open until the upper part of the antethoracic exophagus is entirely healed. The exophageal drain is brought down into a low placed glass receptacle.

Fourth stage When the wound is well healed, the Pezzer drain and the esophageal drain are removed, the gastrostomy is closed and the two parallel incisions are extended to meet each other around the esophagostomy.

JACOB M MORA M D

Lerche W Infected Mediastinal Lymph Nodes as a Source of Mediastinitis Arch Surg 19 7 vv 285

The tracheobronchial lymph nodes which receive lymphatics from the lungs and bronchi and the lower trachea and its hifurcation are very important as gern harboring depots. An abscess of these nodes may discharge into a bronchis with subsequent healing, but a number of autopsies have revealed rupture into one of the large hlood vessels or into the heart and other mediastinal organs.

The proper diagnosis and treatment are dependent upon an accurate knowledge of the topography of the various groups of lymph nodes and the sur rounding organ. These nodes consist of three main groups situated in the right the left and the inferior tracheohronchial spaces, as described by Sukienni kow Cases with involvement of each of these spaces are reported with anatomical sketches and room genograms. The symptoms consisted as a rule of a dry cough and a substernal pain which was increased by deep breathing and swallowing. Pressure upon the recurrent nerve and the osophagus caused houseness and dysphaga

The author reports also a case in which inflamma ton of the eparterial lymph nodes led to compression of the eparterial bronchus. In another case the abscess ruptured through the esophagus, leaving a fistulous opening through which applications could he made to the mediastinal abscess cavity.

As the left phreme nerve is in close protunity to the pre aortic group of lymph nodes the author be leves that the periadentis often involves this nerve with resulting insufficiency of the corresponding side of the diaphragm

These inflammations are attributed largely to influenzial and tuberculous infections but a case due to a streptococcus infection has been reported. Sub-diaphragmatic infections following appendectomy may give rise to mediastical gland involvement as the mediastical glands receive lymph from the liver and diaphragm. Also in the majority of cases the

lymph vessels of the falciform ligament of the fiver drain to the mediastinal glands

The bronchoscope and the esophagoscope are of great aid in the diagnosis and treatment of these The author advocates mediastinotomy as soon as a positive diagnosis of mediastinal abscess is made GEORGE A COLLETT M D

MISCELLANEOUS

Burrell L S T Roberts J E H Hastings S Melville S and Others The Dingnosis and Treatment of Intrathoracle New Growths Proc Roy Soc Wed Lond 1926 TY 151

This article is a symposium by physicians sur geons laryngologists and roentgenologists. The fact is emphasized that for efficient diagnosis and treatment these specialists must work together

BURRELL presents a classification of intrathoracic neoplasms and cites cases illustrating the symp toms and signs I rimary mediastinal growths in clude sarcoma Hodgkin's disease fibroma and dermoid The first signs are those of pressure In one case the first signs included by pertrophic osteo arthropaths Dispuces and pain are common early symptoms but may develop only in the fater stages Endothelioma of the pleura causes pain and a rap

idly recurring but not always bloody effusion Carcinoma of the lung is more common than was formerly believed. It is rarely recognized being frequently mistaken for pulmonary tuberculosis Tuberculosis and other chronic pulmonary conditions predispose to it. It is usually of bronchial origin and its first symptoms are cough sputum and hamoptysis The late symptoms are those of

sepsis secondary to bronchial obstruction Burrell emphasizes the importance of early diag

nosis of intrathoracic new growths

ROBERTS speaking of the surgical treatment says that surgery is suitable only for benign medias tinal growths For those in the lower part of the mediastinum he advises a long intercostal incision and for those higher up a splitting of the sternum Malignant growths are best treated with the \ ray or radium

Primary bronchogenic carcinoma if diagnosed sufficiently early, can be removed with the bron choscone

HASTINGS discussing the subject from the point of view of the larvingologist speaks of the recurrent nerve paralysis and compression of the trachea caused by mediastinal growths and of the diag nostic and therapeutic value of bronchoscopy in cases of primary tumor of the trachea and bronchi

MELVILLE dealing with the \ ray aspects of intrathoracic tumors emphasizes the increased in cidence of the neoplasms under discussion. He cites statistics showing that carcinomata of the lung constitute 6 per cent of all primary carcinomata

Fibroma of the mediastinum presents a well defined rounded opacity springing from the posterior part of the thoracic wall and pushing the lung in front of it Collapsing the lung from in front of the tumor by artificial pneumothorax is important in the diagnosis

Dermoid cysts usually arise in the anterior me diastinum Occasionally it is possible to see frag

ments of bone or teeth in their contents

The first sign of bronchogenic carcinoma is usually a typical massive collapse caused by ob struction of the bronchus Later parenchy mal and pleural sepsis frequently obscure the picture

Malignant metastases in the lung present a typical picture It is impossible to distinguish between sar

comatous and carcinomatous metastases

The rocutgenological diagnosis of mediastinal new growths requires care and often an elaborate tech mique including oblique and lateral views and the injection of hismuth into the esophagus or the in jection of lipsodol into the bronchi It is important to determine that the mass is not connected with the aorta or fung and that it is not thyroid

KNOY discussing radiotherapy emphasizes first the importance of accurate diagnosis preferably by biopsy If this is impossible the results of therapy will often suggest the type of tumor The benign growths and carcinoma rarely respond Lympho genic and sarcomatous tumors are rapidly affected The greater part of knows discussion deals with the tech ... que of radiotherapy Jerome R Hean M D



SURGERY OF THE ABDOMEN

ABDOMINAL WALL AND PERITONEUM

Forlini E The Retroperitoneal Fossæ and Treitz Hernia (Contributo alla conoscenza delle cosidette fosette retroperitoneali e delle crine del Treitz) 1rch tial di chir 10 6 vvi 481

The author describes the anatomy of the retro peritoneal fossæ including the intersigmoid superior

peritoneal fossæ including the intersigmoid superior ileocæcal inferior ileocæcal or leo appendicular subcæcal duodenojejunal and superior and inferior duodenal fossæ, and describes the anatomical find

ings in five cases of Treitz' herma

The first case was that of a soldier who was taken with severe diarrhoza and vomiting while in the trenches Cholera was suspected The patient was sent to the hospital and soon died Autopsy showed the large omentum to be normal and free Beneath it was a packet of small intestine which instead of being free was contained in a properitoneal bursa constituting the ordinary form of Treitz hernia It was a large sac containing all of the small intestine which was continuous with the posterior wall of the abdomen and surrounded on the sides and above by the colon It was formed of a transparent mem brane through which the loops of small intestine could be seen clearly The opening into the sac was tbrough an oval fenestra about 8 by 6 cm in size, situated beneath the point where the duodenum passes into the jejunum just at the right of the spinal column. The opening was toward the right There was a partial post inflammatory adhesion of the ileum and mesentery to the postero inferior margin of the opening so that the intestine could not be withdrawn as it usually can be in Treitz bernia There was also a torsion of the mesentery which persisted even after the mesentery was freed

Case 2 was that of a man 72 years of age who was to the hospital for six days with intense pain in the abdomen, continuous vomiting and the passage of numerous scanty liquid stools. At autopsy the small intestine from the duodenum to the middle of the ileum was found in the sac of a Treitz hernia the opening of which was beneath the transverse colon The end of the ileum the cacum and the right part of the colon had descended by invagina tion into the left part of the transverse and descend ing colon to within 1 cm of the anus There was an inguinal hernia on each side and the one on the left side contained the ectopic testicle. There was a purulent exudate on the parietal and visceral peri toneum The diagnosis was suppurative peritooitis following intestinal invagination in a subject with a Treitz hernia

The third case was that of a child 4 years of age who died of tuberculous meningitis. Autopsy showed a sac the size of a child's head to front of the

left kidney with the descending colon running above The sigmoid described a curve, bounding the sac below and on the left. The caccum bounded it to the right and below. The transverse mesocolon was completely free, while the right fold of the descend ing mesocolon covered the sac so that it looked as if the sac were formed of the fold itself. The sac contained almost all of the jejunum it had an oval opening about 4 by 5 cm in diameter beneath the transverse colon.

Case 4 was that of a woman of 90 years who died after fracture of the hip Autopsy showed the large intestine to be normal in position but distended with gas. The small intestine was in a sac formed of peritoneum surrounded above and at the sides by the colon. The sac was the size of a child's head and situated entirely in the left side of the abdomen. It was implanted by a small base which looked like a pedicle. The superior mesenterior vein rain in the upper lip of the sac which lay beneath the trans verse colon to the left of the vertebral column in the usual position of the left duodenal fossa.

Case 5 was that of a woman about 50 years of age At autopsy almost all of the small intestine was found in a sac which had an opening beneath the transverse colon The colon had been pushe! to one side and upward 50 that it surrounded the

sac containing the small intestine

These cases present the usual picture of Ireitz herma While the literature says that the incidence of the Treitz and Broesiche herniæ is about equal an ! both types are twice as frequent in males as femal all of these cases were cases of the Treitz type three of the patients were females Two of tibernix occupied the whole abdominal cavity a were surrounded by large intestine 3h of .-were not complete and contained parts of the intestine One had a large sac with a bin directed from above downward and was for is to say it seemed to be formed chiefly of inparietal peritoneum with little involvere : descending mesocolon In the two other was situated almost completely bene to scending colon in one of them high the spleme flexure These various relative to the descending mesocolon depend . or less resistance offered by the val the retroperatoneal connective to u tion of the walls of the sac and the tachment of the peritoneum fror of the abdomen

The posterior parietal periturito a smooth surface as does the but passes over various organipancreas, kidneys etc., form r there is an abundance of fa connective tissue is looser so that slight traction easily cause detachment at these points Detach ment is easier on the left side than on the right and varies in different persons. The herniating intestine follows the line of least resistance this explaining the different positions in the different cases. In the third case besides the portal of entry there was another fossa corresponding to the duodenojejunal fossa. Apparently the opening of the herma was in the left duodenal fossa bounded by the inferior mesenteric vein and the other fossa was the coexisting dudodenojejunal fossa

Some of these cases such as the second one m which in addition to the Treitz herma there was a double inguinal hernia seem to indicate a congenital origin of these herix. Congenital predisposition 1 indicated also by the cases in which large fosse have been found without penetration of intestine

AUDREL G MORGAN M D

Cornioley M Mesenteric Cysts (Contribution 4 létude des l'istes résentenques) I you che 10 b TTUN 500

There has been a great deal of confusion in the classification of mesentene cysts because it has been made partly from the chinical and partly from the pathologico anatomical point of view. The author suggests a separate clinical and pathologico anatom ical classification. Clinically the cysts may be divided into retroperitoneal cysts and pure mesen teric cysts with subdivision of the latter into cysts of the meso appendix the mesentery and the meso colon The pathologico anatomical classification is a follows (1) cy is from retention in the lymphatic vessels which are subdivided into chylous erous hamorrhagie and purulent cysts (1) cysts from the degeneration of lymphatic glands with the same subdivitions (3) eystic lymphangiomata of the mesentery also with the same subdivisions and chylangiomata when their contents are chylous (4) congenital cysts dermoid or entoder mord (3) dermord cysts teratord and mixed (6) enterocystomata and (7) parasitic cysts

Cornioley reports two cases one that of a woman of 35 years and one that of a woman of 43 years If hile these two cysts would ordinarily be classified as cysts of the mesentery the first was really a retroperatoreal enterocystoria and the second a

cystic chylangioma of the mesentery The first symptoms are rather vague intestinal

symptoms loss of appetite and diarrhoa followed by con tipation. The cost may develop for some time without causing any symptoms at all. Then acute symptoms may begin suddenly due to occlu sion of the intestine rather than to the cast itself In the author's case there was distention of the abdomen with pain uncontrollable bilious vomiting abdominal facies and a rapid pulse but no fever

Often when there is no palpable tumor a diagnosis of volvulus is made Volvulus often occurs in cases of mesenteric cysts, though the occlusion may be due to compression of a loop of intestine. A mesen

tene cvst is mos able and can readily cause volvulus while a retroperitoneal cyst must be quite large before it can compress a loop of intestine between stself and the anterior wall of the abdomen. The latter occurred beyond doubt in the author's first case and in a case reported by Wildbol. In the author's case it was the ascending colon that was compressed and in Wildbolz the transverse colon Generally the occlusion is not total therefore opera tion may be deferred for hours or even for days This is explained by the fact that often a volvulus is one of only go instead of 180 degrees

I symptom often noted by the nationt is intra abdominal ballottement on flexion and extension of the trunk. This is of value in the localization of the tumor. A symptom present in all cases of mesen tene evst that have been reported was a reflex con tracture of the abdominal wall during periods of subacute crisis. As a regitoreal reaction has seldom been found at operation the author thinks this is due to traction on the cicliac plexus by the weight

of the cyst

The percussion sounds vary depending on whether the cast is covered by intestine or not Mesenteric cyets are generally smooth and oval a fact which makes it possible to distinguish them from cancers of the intestine which are generally nodular. The diagnosis of mesenteric cysts which are movable is not particularly difficult but it may be impossible to di tinguish fixed retroperitoneal cysts from tumors of the pancreas spleen or liver. It i important to make this differentiation b cau e some of thise organ cysts cannot be extirpated on account of ad hesions to the organ from which they originate

When a cyst suppurates which is quite rare the symptoms of peritonitis may mask those of the cyst itself Cysts bave ben known to rupture without suppuration causing a chylous or serous perstantis the cause of which is rarely diagnosed

The treatment is removal of the cyst unless it i extremely large or the general condition is very poor If the loop of intestine with which the cyst is connected has uffered serious miury or if the mesen tene vessel of the segment are in poor condition the loop should be removed with the cyst suprahzation is not justifiable except in such cases These cysts rarely recur

SUDREY G MORGAN M D

GASTRO INTESTINAL TRACT

Faber K. Holst J E. and Norgaard A. vestigation of the Function of the Stomach by Fractional Removal of the fest Meal med So nd 1926 leav 570

Fractional examinations of the gastric contents were made by the author eighty three times after an oatmeal porridge meal and seventy six times after a rusk meal The conditions studied were chiefly dige tive disturbances

In seventy mae to is the amount of the fasting secretion was 20 c cm and in four tests roo c cm

or more As a rule the quantity of secretion was large when the maximum audity in the subsequent test meal was high. In the same cases the audity of the secretion was high. A low acidity in amounts of secretion of 20 c cm or less has no clinical significance.

The acidity curves in the fractional withdrawal of the test meal in different patients are reproduced

The time of greatest acidity (expressed as the Congo red figure) was most frequently found from one to one and a half hours after the ingestion of the test meal, earlier with low acidity and later with high acidity.

As a rule the Congo red values after one hour are an expression of the highest values of the acidity

curve

True achyla must he distinguished from false achyla. The latter can be detected by fractional examination. A phenolphthalein figure above 25 and high pepsin values in an Ewald test meal which does not react to Congo red paper indicate false achyla.

On account of the regurgitation of the alkaline duodenal contents the stomach contents may acquire, once or more frequently during digestion a hydrogen ion concentration which is below that at which person is active and the Congo red reaction

is positive

The regurgitation of the duodenal contents is most often observed toward the end of gastric digestion. It is just as common in anacid as in hyperacid test meals and is therefore not a characteristic of the latter.

On investigation with the iodine test starch was usually found to disappear from the stomach from two to two and a half hours after the ingestion of an aatmeal pornige meal and in from two and a half to two and three fourths bours after the ingestion of a rush meal Emptying proceeds more slowly the greater the accidity of the test meal

In sixteen cases of achylia, a rusk meal usually left the stomach within nine and five tenths hours

after its ingestion

A comparison between the acid figures in Ewald's test meal and in the corresponding fractional investigation showed that the former gave a satisfactory indication of the maximum acidity of the latter

In daily clinical work Ewald's test meal will suffice for the present for investigations of the hydrochloric and secretion of the stomach. The fractional examination will be necessary in only special cases

Andresen A F R Fractional Gastric Analysis with Histamine Ann Clis Med 1926 v 472

Although fractional gastric analysis is time consuming it is of great diagnostic value. A water test meal is not efficient as it too often shows achylia. The author therefore uses histamine dibydrochlonde hypodermically to stimulate gastric secretion. This procedure is not attended by any untoward symptoms, and the results obtained from

the substitution of hypodermatic injections of hista mine and a 300 cm water meal for the usual cracker and water meal have been eminently satis factory. Nearly 300 cases have been tested in this

The curves of acidity are not to be considered the most important factors in fractional gastric analysis. About the only factors of diagnostic importance are the motor efficiency of the stomach and a study and companion of admixtures found

in the removed specimen

The author describes in detail the technique he uses In addition to titration specimens are examined microscopically for raisin residue, gross blood or pus or other admixtures. The different findings and curves are explained and various diseases with their findings are cited.

At the compection of the test with the patient lying down and the abdomen exposed the stomach is milated through the tube and the size and shape of the stomach and the location of the greater curvature are noted. This is often a more reliable method than \ ray examination

HERMAN H HUBER M D

Keefer C S and Bloomfield A L The Significance of Gastric Anacidity Bull Johns Hopkins Hosp Balt 19 6 xxxix 304

There is no definite correlation between the degree of acid secretion and physical fitness. Approximately one of twenty normal persons has a

deficient gastric secretion

The authors observations were made in a study of consecutive gastric analyses in the medical wards of the Johns Hopkins Hospital, Baltimore In 1,500 analyses anacidity was found in 300 (16 per cent) The diagnosis was based in each case on the absence of free hydrochloric acid in the gastric contents from forty five minutes to one hour after the ingestion of the Ewald test meal However, the determination of the pH of the gastric contents shows that this test lacks refinement. Many per sons with apparent anacidity are able to secrete acid When the histamine test is applied the incidence of anacidity is still further reduced and hecomes practically limited to persons with definite anatomical disease of the stomach such as cancer and the gastritis of pernicious anæmia

The material studied was classified as follows (1) patients with digestive disorders, (2) those with various diseases not primarily of the digestive tract, and (3) those with no evidence of anatomical disease

The frequency of anacidity increases with age, whether organic disease is present or not. The investigation yielded no definite evidence for the assumption that diseases other than disease of the assumption that diseases other than disease of the assumath in themselves influence the occurrence of anacidity. The authors found no evidence that anacidity per se causes any specific symptoms or signs in brief, they were unable to discover any definite correlation between anacidity and any other factor excerd are

With regard to gastric motility the generalization is made that stomachs of the an-cidity group empty more quickly than those of the normal acidity group CHARLES I DL BOIS M D

Baggio G Experimental Gastric Ulcer from Ob struction to the Emptying of the Stomach (UI cere gastriche sperimentali da ostacolo allo svuota mento dello stomaco) Policim Rome 1026 zzzni sez chir 437

The author performed experiments on animals to determine the cause of ulcer of the stomach and duodenum. He operated on ten animals folding in the anterior wall of the stomach and fixing the introflexion with catgut sutures. The posterior wall was not touched at all and the introflexions were never deep enough to obstruct the lumen of the stomach completely The trauma from the operation was yery slight

Six of the animals died after intervals ranging from four to fifty four days and the four others were killed at the end of three months. The four that were killed and one of the animals that died after fourteen days did not show any signs of ulcer but the others showed lesions varying from simple crosion to an advanced stage of typical gastric

ulcer The lesions were not only on the introflexed wall but also in some cases on the posterior wall opposite the introflexion. They were always in zones connected functionally with the folded in part. The recent lesions were associated with extravasations of blood into the walls of the stomach

Baggio believes the ulcers were due to the trau matic action of the ingesta on the stomach wall as a re ult of the increased intragastric pressure from the ob truction caused by the introflexions. This trauma favored the digestion of the wall by the gastric Juice AUDREY G MORGA : M D

Lahey F H and Jordan S M When To Operate in Cases of Leptic Ulcer A Lork State J M 19 / YELL 60

Lahev and Jordan are attempting to teach pa tients to manage their gastric ulcers by diet and medical measures. They believe that urgers is not the primary method of treatment and that because of the recurrence of ulcer and the mortality of operation it becomes the duty of the surgeon who accepts an ulcer case regarded as a medical failure to be highly critical of that medical treatment and before suggesting surgery to try medical manage The course of treatment advocated should be of known thoroughness both in outline and in applicability on the part of the patient

They regard operation as indicated for (1) per forated ulcers (2) ulcers with unrelievable cicatricial obstruction (a) cases of recurrent severe harmorrhage (4) cases in which carcinoma can be reasonably sus pected and (5) cases of failure with well known

adequate medical management

MORRIS H LARIN M D

Finney J M T The Surgery of Gastrie and Duodenal Ulcer Am J Surg 1926 1 323

Finney gives a brief review of our former knowl edge of gastric and duodenal ulcer. He states that the two extremes-consistent opposition to any form of operation and the indiscriminate resection of large portions of stomach wall-are to be avoided The middle course-a conservative type of opera tion-is followed by the large majority of surgeons of experience

The diagno is of gastric and duodenal ulcer is based on the careful accumulation and interpreta tion of information derived from many sources Close co-operation between the internist and the surgeon is essential

Cicatricial contraction in healing perforation and hamorrhage are complications of importance to the surgeon in the selection of the type of opera tion to be performed or other treatment to be given

The theories advanced as to the origin of gastric and duodenal ulcers include the inflammatory neu rocenic circulatory bacterial digestive and corro sive theories. In all probability, chronic ulcer of the stomach or duodenum is due not to a single cause acting alone but to a combination of causes acting more or less together. That ulcer of the stomach may be the origin of carcinoma seems definitely established The work of Cabot and Adie and of Williams and Lwing is very enlightening According to Wilson and MacCarty 69 per cent of uleers develop secondary careinoma. In Finney's opinion only from 10 to 15 per cent of gastric ulcers undergo carcinomatous transformation quently the surgeon's method of procedure-radical or conservative-will depend upon which view he accepts and whether the lesion found appears to be a simple ulcer or a precancerous ulcer

The conservative operations may be divided into (1) the e directed toward local excusion cauteriza tion or suture of the ulcer and (2) local excision with gastro enterestomy or pyloroplasty alone. In a radical operation not only the ulcer but the entire ulcer bearing area described by Rodman must be removed (gastrectomy by the Billroth I or II methodi

Of course the choice of operation should depend entirely upon the patient's condition. In Finne, s opinion pyloroplasty or gastroduodenostomy associated when possible with resection of the ulcer would be the procedure of choice Extensive resec tion of the stomach is reserved almost entirely for mahgnant disease

The sacrified of large portions of the stomach is too great a risk to be assumed by the average surgeon

The surgeon should be guided entirely by the facts established and the erroumstances found If for any reason a more or less extensive resection of the pyloric portion of the stomach is indicated gastro duodenostomy (Billroth I Haberer Finney modi fication) should be done

Flint E R Gastroduodenostomy Lancet 1927

Fint has treated nearly 200 cases of chrome duodenal ulcer by gastroduodenostom. In the technique of the operation the angle between the second and thurl parts of the duodenum should be freed rather than the upper angle where the first and second parts meet, as at this point there are many vessels. Fint does not use a clamp on the duodenum and does not insert any stitches in the gastric mucosa. Omission of the duodenal clamp allows digital palpation of the ulcer. The ulcer is sutured over A complete block caused hi the stitches has never been found in the author's cases. As the duodenum is very irritable. Fint believes that its handling accounts for the postoperative vomiting.

After the operation glucose solution is given hy rectum in the author's cases and nothing is allowed by mouth for a period of from twenty four to forty

ght hour

There have heen two deaths both those of patients who were emacasted before the operation. There has been no anastomotic ulcer. Should such an ulcer develop it is still possible to perform a posterior gastro-enterostomy.

I FRANK DOUGHTA M D

Troell A Benigh Tumors of the Stomach Especially from the Point of View of Diagnosis (Les tumeurs benignes de l'estomar au point de vue surtout diagnostique) ida radiol 1920 vii ,68

Fairly numerous cases confirm the theory that the required properties of the properties of the stomach shadow after the ingestion of an ordinary opaque meal to practically pathognomone of a beingn new formation (myoma angioma etc.) Variation of the emptying time of the stomach at different examinations is of diagnostic importance as it may be due to the presence of a polyp-like massive tumor in the pyloric region which tends to force itself into the nilorus.

The author's cases of suhmucous myoma and papilloma of the stomach confirm the great diag nostic value of the roentgen examination of this

region

Of decisive importance is the roentgenological demonstration in the stomach shadow of a large even rounded filling defect with good mobility and near it a soft contour. In cases in which the defect observed after the usual opaque meal exhibits a varying appearance on different occasions (papilloma) an examination should be made after inflation of the stomach with air. When this is done there is a prospect that the shadow will be rendered distinct. The emptying of the stomach may vary more than in cancer, this being noted in both the routine clinical examination for mothly and the roentger ray examination. The volume of the stomach usually does not exhibit any restrictions.

Polyposis of the stomach can be diagno-ed from the roentgenological demonstration of a constant undulancy over a part of the greater curvature isolated polyps are shown by persistent defects within this contour

The very valuable diagnostic features referred to go far to prove the desirability of a careful roent-genological examination, especially in the cases of patients with attacks of melana for a relatively long time but without any other symptoms of ulcer and the cases of marked anamia of a secondary type which arises gradually without any demon strable cause.

In the treatment, resection of the stomach is preferable to mere extingation of the tumor as not infrequently it is impossible to exclude malignancy even by inspection of the removed tumor and malignant degeneration of papillomata and myomata seems to be comparatively common

Claimont P Extirpation of Carcinoma of the Cardia (Leber die Extirpation des Kardiacar cnoms) Area f klin Chir 19 6 cxl 343

Clarmont reports his conclusions with regard to the operative treatment of carcinoma of the cardia On the basis of his own experience and the reports in the literature he divides the cases into four groups

Group 1 Cases in which an entirely abdominal operation is possible (laparotom) with extingation of the cardia and gastric resection followed hy end to-end or end to-side exophagogastrostomy with or without the formation of an alimentary fistulary of four of the author's patients who were treated in this manner, one has remained cured for more than four years. The others died after the operation. Peuginez Voelker, and Burcher have reported cured cases.

Group 2 Cases requiring a laparomedia-stinotoms with exturpation of the cardia and gastine resection followed by transdiaphragmatic extrapleural casophagogastio-stomy or esophagojejunostomy. The author had two cases in this group. Both of the patients died

Group 3 Cases requiring a laparopleurotom, with extinpation of the cardia and gastire resection followed by transdiaphragmatic transpleural esoph agogastrostomy or if anastomosis is impossible, the formation of an external fistula (oral esophagostom), gastrostom) and restoration of continuity with a tube. The author had no case in this group Zaaijer and Hedhlom have reported successful results from this retainment.

Group 4 Cases requiring a laparotom with exposure of the esophagus in the cervical region and its intrathoracic (transpleural retropleural hunt binamural) detachment followed by resection of the stomach with total extripation of the cardia and esophagus and if anistomosis is impossible the formation of an alimentary fistula or collar esophagosatrostom. The author had one case in this group. The result was unsuccessful.

Clairmont is convinced that the extirpation of carcinoma of the cardia should be attempted as there have been instances in which the operation

has resulted in a cure

Cartinoma of the cardin is not a rare condition and often occurs between the fortieth and fiftieth years of age. It is frequently a papillary carcinoma with little tendency to penetrate deeply. The pa tient is affected more by manition than by the making nancs of the tumor. The tumor has little tendercy to advance upward beyond the cardia but it pu hes the usually unchanged esophage il muco a upward thereby leading to an erroneous diagnosis when a specimen is excised for microscopic examination Unsuccessful results of treatment have been due chiefly to the fact that the diagnosis was made late and the case wa inoperable when hist seen

The terbnique which has been developed only by experimentation on animals must be further per fortel. In the author's opinion, the chief essential to an early diagnosis. Because of the untrust worthing s of all chinical methods of diagnosiincluding asophagostomy the removal of a specimen and 3 ray examination such symptoms a cardiospism beginning dilatation and atony must be investigated by exploratory laparotomy Cases in which the general condition is poor and there are extensive and fixed lymph bland metastases with adhesions to the pancreas or the entiac trunk infiltration of the diaphragm or firm tration in the ce ophageal hiatus are to be regarded as inoperable Involvement of the spleen renders the prognosis unfavorable but does not definitely contra indicate

operation The operation should always he begun with a laparotomy (knettner). In cases in which the car cinoma has not advanced upward hevond the cardia and ecsophagogastrostomy can be done without difficulty it should remain an abdominal operation For other cases the combined methods are to be considered In Clairmont's opinion the best and salest method of approaching the lower thoracie portion of the esophagus s extirpation of the twelfth rib and resection of the tenth and eleventh ribs followed by retropleural exposure through the posterior mediastinum forward passing around the left side of the aorta as de cribed by Gregorie The radical operation with restoration of continuity is possible only when the defect is not greater than 8 cm. When the defect is larger the formation of an external tistula is indicated. The retronleural route is always to be preferred to the transpleural mute

The operation should be pe formed so far as possible under local angesthesia. It still remains to be determined whether a several stage operation is preferable to a one stage procedure and whether section of the phrenic nerve should be done in the neck or its pas age through the diaphraum. The use of jejunostomy as an alimentary fistula is an important aid in the extirpation of a carcinoma of Von Redwitz (Z) the cardia

Delore Y Mallet Guy P and Burlet J Results of Resection of the Stomach for Can cer (Étude changue et prognostic des suites éloignées de la ré ection gastrique pour cancer) Presse med Par 1926 TTX1V 1250

Most statistics on resection of the stomach for cancer emphasize the technique and immediate re sults. I'en of them show that the cases have been followed up chinically for any considerable period of time The authors report 166 cases in which resection was performed by Delore in the period from 1903 to 1926 Of the 130 patients who recor eted from the operation eighty eight have been followed up the rest were operated upon too re cently to he included in the study. Of the eighty eight traced twenty two (25 per cent) lived more than three years but eight of them (9 per cent) died after more than three years Therefore only 16 per cent made a permanent recovery Gastree tomy like other methods, gives a rather low per tentage of permanent recoveries but is generally followed by a p mod of restored health helore re Currence In the cases reviewed the average duration of this period was eighteen months. The authors find also that the quality and length of the tem porary cure are much better after resection than after palliative operations

It is difficult to e table h a period after which recovery can be said to be certain. Three years is quite generally accepted but one of the authors patients died of recurrence after six years and an other after six years and three months. Of the author's fourteen patients reported as permanently cured only four are in the rather uncertain period between three and six years. Typical case histories are given of patients in excellent health after more than that period whose lives were beyond doubt saved by the operation. A permanent recovery in as few as 16 per cent of the cases more than 10 tifies

the operation

evacuation of the stomach

It is very difficult to make a prognosis as to per manent recovery Stenosis of the pylorus has been con idered as a sign of a favorable p ognosis but the authors figures do not confirm this theory. The average period before recurrence was cubiteen months in patients with stenosis of the pylorus and naneteen months in the others 60 per cent of the patients with stenosis of the pylorus survived more than a year and 67 per cent of those with normal

Evidently the prognosis should depend on the extent to which the cancer has become generalized outside the stomach As the cancer is disseminated by the lymphatic circulation it might be supposed that enlarged glands would furnish an indication as to the prognosis but the percentages of survival for more than a year were the same in the patients with enlarged glands as in those whose glands were not enlarged. This is probably explained by the fact that the enlargement of the glands was caused by inflammation and not by invasion of the glands by the tumoc

Collo d cancers were more malignant than the other forms, only 30 per cent of the patients with colloid cancer surviving for more than a year while 86 per cent of those with other forms of cancer survived more than a year. It has been commonly believed that ulcerated cancer is more beingin than the non ulcerated forms but the authors found this true to only a shight extent.

As every ulcer of the stomach is a potential cancer, resection is frequently indicated in cales of ulcer and the authors believe it is absolutely in dicated for old indicated callous ulcers which are one in the process of deginerating.

AUDREY G MORGAN M.D.

Palma, R. Intestinal Absorption in Heus from Occlusion Later between dell'in estino nell'Leo da s'rozzamen o) irre (2' di che 19 2 xu

The importance of in estual absorption in calling the serions symp ome of occlusion of the intesting has been recognized for a long time but there has been a marked divergence in the reports of experimental work. The analov carned out investigations on female dogs to determine whether a possible deviation in intestinal absorption in occlusion is due solely to functional changes in the mixing a membrane or whether the vibile valid of the in estime 1, involved. He used phenolalphone phthalein as an indicator recording the beginning of eliminations and the amount excreted in a given time. The observations were made in the institutional control of the internal colors of the internal colors of the internal cand were preceded by control examinations on normal animal.

It was found that up to a maximum of forty-eight hours after the occurs on the capacity for absorption of the central part of the in some is decreated for some datance from the obs ruction. This functional reaction occurs in the peripheral part of the intestine also but no to so great a degree below the lesion. The daturbance of tunction increases progres wellfrom the time of the occlus on. The disturbance in cludes all or the tistues of the wall or the intestire bu the decrease in absorption is due solely to les ons o the vall of the intestine. The duodenum and jejunum show greater sens tiveness than the rest of the small in estine which is manues ed both by the greater reaction of the d_odenum and jejunum after constrction of the intestine and the greater degree o change in the intestine as a vicole when the occluing is in the duodenum or jegunum.

ATDRES G MORGAN M.D.

Gneullette, R. Intestinal Invagination Its Clinical Forms in the Adult An Experimental and Roentgen Study (De Finvagination eitest ince est furnes thoughes their laddite ettide experimentale e radio matte). Pee t radio, Par., 19 5 xxm 12 6

Invagration of the intestine in the adult may be simple, with three caleders of interinal wall and

progressive or retrograde (ileal colocolic ileocorcial ileocolic) or it may be complex with five seven or more cylinders. It is due to two factors which may act reparately or in conjunction—the first a physiological or anatomical retraction of the intestine on which exaggerated peritaliss acts until it finally pushes a part of the bowel into the next lower segment which is in repose and the econd traction on the wall of the intestine by a tumor.

When once the imagination has begun the in vaginated segment continues to move forward Sometimes this forward movement is furthered by abnormal anatomical conditions uch as an abnormally long mesocial but sooner or later it is arrested by the development of circullator disturbances and inflammation. These occu, onally cause amputation of the invaginated egiment but more frequently strangulate it.

The cause of invagnation may be anything that decreases the caliber of the interine and produces hyperpensials in 40 per cent of the cases in

addits the cause is a tumor. The diagnosis is based on pain diarrhum bloods stools vointing and possibly an abdominal tumor. There are three characters the creatigen appearance the capola picture which shows the vertex of the dome the 'trident picture which shows the circular ring at the beginning of the invagination and the learnen of the invagination and the learnen of the invaginated part and a shortening

or apparent absence of one segment of the colon.

The discale may be very acute calling death in a few days as in the infant or very chronic Listing to vears with various in enening stages. One special torm is retrograde invagination of the jeginnim into the somath after gastro-entero-torm. This is a very serious condition it left to itself. While-poin at neous dismingtion of spontaneous climination of the invagination of contraction and even with apparent recovery in this way the patient is exposed to serious danger. If the condition is treated in time the prognosis is not nearly so unfavorable and it becomes very good to the diagnosts is made and treatment given early before igns of toxering have developed.

Treatment hy external maneuvers and the in suffiction of air into the rectum should be aban doned as laparotomy is not a sociated with any serious danger. The success of surgical treatment depends upon whether or not it is possible to disminagmate the intestine and on the seriousness and extent of the lesions of the intestinal wall. The general condition must also be taken into consideration. Though resection with immediate resoration of miestinal circulation cems to be the ideal operation, it may be better in the cales of serious in operated patients to person a simpler operation hit such as entero-anal omoral or even a mple centero-tom.

The author has collected to cales in which dimyagination was done in twenty-seven with recovers in twenty three (90 per cent) extirpation of the

invaginated part in six with recovery in four (66 per cent) resection in sixty with recovery in forty one (66 per cent) anastomosis with or without exclusion in eight with recovery in seven (85 per cent) and section in two stages in three with recov ery in two (66 per cent) Therefore of the 104 operations seventy seven were followed by recovery In seven cases in which operation was not performed there were six deaths AUDREY G MORGAN M D

Brocq P and Gueulette R Intussusception in the Adult Clinical Types and Roentgeno Intussusception in logical Study (Linvanination intestinale de l'adulte formes cliniques et étude radiologique) J de chir 1026 xxviii 360

Intussusception in the adult may be ileocarcal (the most common form) pleocolic execocolie sim ple double or double recurrent. Two factors nec essary for its occurrence are a diminution in the size of the intestine and a disturbance of normal peristaltie movements. In a few cases disinvagina tion occurs spontaneously but in the majority strangulation results sooner or later. The strangulated intestine may become detached and thrown off but this is rare. If the condition is untreated it tends to go on to obstruction perforation peri tonitis and death

Statistics show that 36 per eent of intussuseep tions in the adult are associated with tumor usually a benign tumor of a mobile part of the large bowel Malignant tumors very rarely eause invagination Certain inflammatory swellings such as those due to tuherculosis and other conditions such as Meckel's diverticulum and pericohe membrane ac count for a small percentage of the cases The authors doubt if acute or chrome appendicitis eauses intussusception very often Small ulcers of the howel may be a factor Leriche found lesions in the plexus of Meissner and Aucrhaeh in a case of intussusception. In 50 per cent of the cases the

etiology is obscure The symptoms are usually not definite authors distinguish a chronic and an acute type. A tumor is felt in about 50 per cent of the cases and often this tumor is seen to move about from day to day At times with an exacerbation of the symp toms it can be left to become harder. Dance has described a depression in the right that fossa due to the absence of the segment of bowel involved in the invagination The \ ray may give very valuable evidence especially in chronic cases. The roentgen picture shows stoppage of the barrum along a concave line The segment of the bowel involved may be invisible or may be traversed by a thin sinuous line of barium

The treatment is of course surgical The type of operation depends upon the patient's condition and the possibility of disinvaginating the intestine The authors favor resection and anastomosis when this type of operation is feasible claiming forty cures in sixty cases treated in this manner

MICHAEL L MASON MD

Perrottl G The Plastle Use of Free and Pedun culated Flaps of Omentum in Suture of the Intestine (Exoluzione e meccanismo di azione delle plastiche epiploiche e peducolate in rapporto alle suture intestinali) Ann stal di chir 1926 v 1912

The author performed experiments on dogs using free and pedunculated flans of omentum to cover incisions of the intestine which had been sutured in two layers. In some of the experiments the in testine was only partially severed, whereas in others

it was wholly severed

He found that the free flaps survived only at the place where they were in direct contact with the intestinal mucosa and could obtain the necessary nutrition from the host tissue The surviving part participated in the process of healing and con tributed to the formation of a solid scar, but the peripheral zone of the flap which was not well nourished degenerated part of it underwent necrosis and acted like a foreign body causing a reaction in the adjacent peritoneum which led to the formation of adhesions and a certain degree of constriction of the intestine Pedunculated flaps of omentum which had abundant nutrition of their own took part as a whole in the process of healing contribut ing to the formation of a more solid scar they did not become adherent to the neighboring peritoneum or cause any other disturbances. The latter are therefore to he preferred to free flaps

AUDREY G MORGAN M D

Rieder II Roentgenological and Cinemato graphic Observations of Organic Stenosis of the Pars Superior of the Duodenum (Roent genelog che und besonders Roentgenkinemato graphisches Beobachtungen bei organischer Stenose der Pars supenor duodeni) leta radiol 1926 vii

Rieder describes the motor processes in operatively confirmed eases of ulcerous duorienal stenosis. The roentgen examination revealed retention and dilata tion of the duodenal hulb and quickly subsiding arregular undulatory movements of the wall of the hulbus The latter were never transmitted back ward toward the stomach There was no rhythmical peristalsis with wave formation such as occurs in the stomach The peristalsis of the stomach ex tended only as far as the pylorus and did not pass over into the bulbus. The individual phases of the bulbus waves varied extraordinarily in their situa tion form and magnitude. The author attempts to explain these wave movements. In addition to the movements described girdle like contractions were occasionally noted in the center of the bulbus ie on the border between the pyloric and the distal hulbus tract These contractions soon relaxed whereupon there occurred an active movement of the contents of the buibus and their evacuation in the distal direction

The motor processes described appeared only after heavy filling of the bulbus and ceased after the completion of duodenal digestion

Christophe, L, and Hartmann, H Duodeno jejunostomy for Treutz' Hernia (Duodeno jejunostomie pour hernie de Treutz) Bull et mêm Soc nat de chir, 1926 lu 1000

The case is reported of a man 37 years of age who had a tumor in the upper part of the abdomen on the left side which was first noticed six weeks previously when the patient was awakened at night by a severe and continuous abdominal pain In digestion especially for fats, developed five years previously During the past two years there were alternate periods of diarrhoea and constinution The slight malaise, the colics, and the occasional vomit ing which occurred during constipation ceased when the diarrhoea began The tumor was the size of an orange, hard, pregular, slightly dull on percussion painful on pressure, and fixed posteriorly but with some lateral movement. In the roentgen examina tion the colon filled and emptied regularly with barrum the splenic flexure was found very high and the hepatic angle slightly lowered Palpation under the screen showed the swelling to be posterior to and independent of the colon

At operation performed by Hartmann, a lobulated red tumor under the colon was found at the mesen teric border of the first jejunal loop and adhering to the fourth part of the duodenum Hartmann considered the swelling to be a retroperitoned

glandular mass and closed the abdomen

After temporary improvement following the operation the symptoms became more frequent and painful Digestion was slow and difficult and the patient complianted of pain in the left hypochon drum which was most intense immediately after meals. The 'x ray showed the persistence of a horn shaped collection of barium in the third part of the duodenum. A second barium meal revealed a gaping plorus leading into a greatly dilated duodenum. The diameter of the third part of the duodenum was almost that of the stomach. Antiperistalitic waves occurred in the stomach and duodenum. The patient is general condition was very poor. On pal pation, the swelling seemed to be semisolid.

At operation, Christophe found a normal liver numerous adhesions between the gall bladder and duodenum, a small stormach, a large gaping py lorus numerous adhesions of the small intestines ad hesions of the greater curvature of the stomach to the old operative scar, and numerous intraperational glands. The retrogentional tumor was firm and fixed posteriori. Large glands projected from the surface. Christophe did a duodenojejunostomy. Aspiration of the tumor was negative. Incision into the mass exposed a pochet containing from 50 to 60 c m of bloody fluid and some white cheesy material A gland and a piece of the wall were removed for biopsy, a drain was placed to the pocket, and the abdomen closed.

The gland showed chronic inflammation and the wall the structure of normal intestine Chylous drainage was abundant at first but decreased Digestion was painless and good the appetite was

excellent and the patient gained 4 lbs, but death resulted from acute cedema of the glottis

At autops, the duodenojejunostomy was found well united and patent. The retroperitoneal hernial sac was difficult to locate because of adhesions, but was 15 cm long and had the diameter of a loop of small intestine. In certain areas its wills were very thick. The communication of this loop with the duodenum and jounum respectively admitted the point of a fine button scissors. Microscopically the loop showed some infiltration and chronic inflammation.

According to Hartmann a retroperitoneal hernia in the fossa near the fourth part of the duodenum is rare

Hartmann reports the case of a man 63 years of age who for a long time had suffered from dysphala and vague abdominal pain and ultimately intestinal obstruction At operation the small intestines were found behind a thin serous membrane. The color and c ecum were flat and pale From a small orifice near the cæcum a series of distended loops of small intestine could be drawn The serous covering leaslet was incised until the small intestines an peared to be entirely free A relatively large trans verse vessel was ligated and divided. In exploring from the execum along the empty ileum for a short distance Hartmann came upon a red prominence consisting in a loop of small bowel held obstructed by a resistant fibrous fold. This fold was divided The patient died soon after the operation

At autonsy the serous covering membrane when resutured showed that nearly all of the small intestines were contained in a retroperitoneal pocket The duodenum had normal relations From the right lower part of the sac by a narrow opening, the terminal ileum descended and terminated in a right inguinal hernia The descending colon was pushed forward The hernia was prolonged into the pelvic mesocolon to the pelvic fossa. When the her nial sac was emptied of its contents a retroperitoneal pocket of extraordinary size extending below to the pelvic fossa and loosening the leaflets of the pelvic mesocolon was found The latter was separated into two small compartments by the vessels to the pelvic colon The sac extended above to the disphragmatic vault passing in front of the kidney and behind the spleen On the left the sac lifted the descending colon The fourth portion of the duodenum was on the right

According to Hartmann, the total number of cases reported to date is 165. Very often the herma are found only at autopsy. As a rule operation has been done because of signs of intes

tinal obstruction

In the presence of partial intestinal occlusion and timor there is time for special examinations as in Christophe's case in which duodenal stasis was found Christophe considers duodenojejunostomy as the operation of choice in retroduodenal heraire which detour the food and fix the intestines, thus preventing the jejunum from being drawn further

into the sac. He believes that an operation which relieves simply the incarceration will not prevent recurrence

According to Hartmann duodenosesunostomy may be done in chronic cases and those in which because of adhesions the hernia is irreducible but it is not the operation of choice for every retro duodenal hernia The reduction of the incarcerated intestines with closure of the sac is preferable when ever possible. In the treatment of hermize on the right side care is necessary to avoid injuring the superior mesenteric arters which lies on the anterior superior border of the fossa and in the treatment of hernize on the left side care is necessary to avoid injury of the inferior mesenteric vein. In complete acute occlusion relief of the obstruction remains indisputably the operation of choice Of thirty seven reported cases operation was followed by recovery in nineteen (50 per cent)

WALTER C BURKET M D

Bonnet P Oeclusion by Meckel s Diverticulum (Occlusion diverticule de Meckel) Lion chir 1026

A man of 29 years entered the hospital with intense abdominal pain and vomiting and absolute retention of stools and gas Examination showed distention of the abdomen and absence of peristalsis The most severe pain was felt a little below the umbilious Examination revealed also a small reducible umbilical herma which was very sensitive on palpation Appendicitis was excluded by absence of pain in the right iliae fossa and the low tempera ture and pulse rate. The patient's father had died of tuberculosis and the patient had had attacks of abdominal pain since childhood. These facts suggested the possibility of occlusion by a band or an adhesion due to an old tuberculous peritonitis Rectal palpation combined with hypogastrie palpa tion gave the impression of distended loops of small intestine and elicited a splashing sound. The condition was believed to be a localized occlusion of the small intestine probably by a band

Operation showed some of the loops of small intestine strangulated under a red cord resembling an intestine without a mesentery The latter proved to be a Meckel's diverticulum 15cm long which was firmly adherent in the retromesenteric fos a to the posterior abdominal wall. The cord was cut be tween two ligatures with the thermocauters. Near its parietal insertion it had no lumen. The diver ticulum was resected at its insertion into the intestine and the wound drained Uneventful recovery

followed Two points of interest in this case were the strangulation of the small intestine by a fixed diverticulum which with the mesenteric cord stretched behind it formed an unyielding band and the existence of the malformation in the um bilical region which the author thinks is an im portant diagnostic sign in such a case

AUDREY G MORGAN M D

Lavesson II Studies on So Called Heorgeal Invagination (Studien ueber die sogenannte in vaginatio deocaecalis) Acta chirug Scand 1926 Iu 48

The author describes the following forms of intussusception occurring in the ileocacal region

I Carcal invagination-invagination of the car cum only a execercal invagination or of the excum into the colon a excocolic invagination the ileum remaining in its usual place

2 Cæco ileocolic invagination a further develop. ment of the cacal invagination the ileum being

drawn up into the colon 3 Heocolic invagination an invagination of the ileum into the colon with the circum remaining in

its place 4 An ileocacocolic invigination a further devel

opment of 3 in which the creum is drawn up into the colon Of these various forms the exco ileocobe in

vagination is by far the most common. Of twenty four cases of intussusception observed at the Trelle borg Municipal Hospital eighteen were of this type The purely exeal type occurred in five eases where as only one case of the ileocacocolic variety wa observed There was no ease of ileocolic intussus ception

From his own observations the author concludes that the most common cause of the invagination is edematous inflammatory changes in the mucous membrane The frequency of such changes in the exeum is due to the structure and shape of this portion of the intestine and its greater bacterial content as compared with the ileum The inflam matory adema varies considerably ometimes lead ing to such marked swelling of the intestinal wall as to simulate a tumor. In other cases the changes are less pronounced being confined to one or several haustra

The author deals with the symptoms in the different forms of intussusception and the possibil ities of establishing the diagnosis

Although admitting that excellent results may be obtained by non operative treatment, he is of the opimon that with the present improved surgical technique the condition should be treated surgically In the twenty four cases reviewed all of which were operated upon a premanent cure was obtained

Hurst A F The Diagnosis and Treatment of Colltis Lancet 1926 cert 1151

No diagnosis is made with greater frequency and with less justification than that of colitis diagnosis of colitis should never be made until a thorough investigation has shown that inflamma tion of the colon alone is present

The presence of mucus is not indicative of colitis Repeated sigmoidoscopic examination of patients passing large amounts of mucus have failed to show the slightest sign of inflammation. In true colitis the mucus always contains pus cells The presence of visible blood indicates ulcerations

There can be no doubt that colitis is almost always due to infection, but it is rarely possible to tell in a given case what organism is responsible for the disease

It is no more justifiable to treat colitis without a sigmoidal examination than to treat tonsillitis with out looking into the throat. The sigmoidoscope can be passed easily with the patient in the knee ellow position. If the mucous membrane of the rectum and pelvic colon is healthy ulcerative colitis can be excluded immediately as the disease starts and per sists in the distal segment of the colon. When a patient passing blood and puis in the stools shows no evidence of ulcerative colitis on sigmoidoscopic examination a growth of the colon is almost certain to the present. If the growth is within 12 in of the anus.

it should be recognized though it cannot be palpated Roentgenological evidence of coltis is variable and a diagnosis made from the \times ray plate without other confirmation is unreliable \times An \times ray examination should always be made in long standing cases which are not responding to treatment It may reveal diverticultus ulceration, or stricture

Strictures and polypi are occasional complications, but following improved methods of treatment complete healing results in the majority of cases

In the treatment of colitis the patient should be kept in bed until the sigmoidoscope shows complete recovery. A generous mixed diet from which all solid residue has been removed should be given Fresh air and sunlight help to improve the general condition.

A polyvalent antidysenteria serum is often very beneficial

Local treatments are of value The author usually employs tamic acid, from r to 2 gr to the oz There is no evidence that so called intestinal antiseptics exert any influence Saline apenents or parafin should be used to keep the stools soft

Surgery is indicated only in dealing with the complications, but in extremely refractory cases

appendicostomy may be done

WILLIAM E SHACKLETON M D

Nordmann The Development of Surgery of the Colon in the Last Twenty Five Years (Entwick lung der Dickdarmehrurge in den letzten 25 Jahren) 50 Tag å deutsch Ges f Chir Berlin 1926

The diagnosis of colonic aliments has been advanced by the \text{Tax} \text{ X-ray examination has shown, as was previously determined climically, that besides the normal peristaliss there is an antiperistaliss and that the colonic contents do not pass through newly created anastomoses but are carried along the old route by physiological peristaliss. Anastomosis is therefore practical only in the presence of an impassible stenosis. Surgical treatment of dynamic obstipation is of little avail. Finisterer has reported good results in obstinate obstipation from resection of the descending colon, but in Nordmann s opinion this is too diagreous. Payr also warns against sur

gical interference as long as there is no certain differentiation between dynamic and mechanical forms of obstination

Congental abnormalities of the colon include total and partial atresta, congenital stenoies and malformations due to arrest of development. In such conditions the operative procedure should be as simple as possible, viz the formation of an intestinal instula central to the atresta or stenois.

Abnormal dilatation and marked motility of the excum do not require surgical interference. They occur so frequently that they cannot be regarded as pathological. Torsion of the excum however, should be operated upon as soon as possible. It the bowel is still viable it is sufficient to unit sit and fix it in the normal position. In gangene of the excum the excum and ascending colon should be resected.

Jackson's membrane the ligamenta vanforma and double splenic flevure are due to developmental disturbances in embry onic life. They require surgical interference only when the X-ray shows that they are causing obstruction or interfere with colonic movements. These complications, however seem to be very rare. Nordmann warns against operative procedures on these membranes especially resection of the ascending colon, when the symptoms are vague.

Megacolon a congenital condition, first causes definite disturbances when there is kinking and obstruction at the root of the efferent loop Asso ciated enlargement of the urinary bladder is also the result of a disturbance of embryonic develop The surgical treatment of megacolon de pends upon the patient's general condition and age and the anatomical findings. In all cases the en larged colon must first be emptied. If enemas are not sufficient a crecostomy is necessary is preferable to the formation of an artificial anus in the megacolon. In uncomplicated cases in which the general condition is good the one stage resection is the method of choice provided the large loops have been successfully emptied. In the cases of small children with extensive filling of the megacolon. the cases of weak and sick patients and cases with volvulus at the flexure the several stage resection is preferable

Diverticulities of the colon is more common than bas been thought. It occurs more frequently in obese than thin persons and causes pain similar to that of appendicties on the left side. The rupture of a diverticulum into the bladder is not rare. In such cases the differentiation of the condition from carcinoma is difficult even with the aid of the \text{\text{X}} ay. In uncomplicated cases a one stage resection is in dicated but in complicated cases especially those with rupture into the bladder the formation of an artificial anis is necessary. The unfavorable progression less than the proposed only by carly diagnosis.

Isolated ulcers of the colon are very rare. They occur most frequently in the ascending colon. They are usually first diagnosed when they perforate

into the sac. He believes that an operation which relieves simply the incarceration will not prevent recurrence

According to Hartmann duodenojejunostomy may be done in chronic cases and those in which because of adhesions the hernia is irreducible but it is not the operation of choice for every retro duodenal herma The reduction of the incarcerated intestines with closure of the sac is preferable when ever possible. In the treatment of hermize on the right side care is necessary to avoid injuring the superior mesenteric artery which lies on the anterior superior border of the fossa and in the treatment of hernia on the left side care is necessary to avoid injury of the inferior mesentenc vein. In complete acute occlusion relief of the obstruction remains indisputably the operation of choice Of thirty seven reported cases operation was followed by recovery in nineteen (50 per cent)

WALTER C BURKET M D

Bonnet P Occlusion by Meckel s Diverticulum (Occlusion diverticule de Meckel) Lyon chir 1926

A man of 9 years entered the hospital with intense abdominal pain and vomiting and absolute retention of stools and gas Examination showed distention of the abdomen and absence of peristalsis The most severe pain was felt a little below the umbilicus Examination revealed also a small re ducible umbilical hernia which was very sensitive on palpation Appendicitis was excluded by absence of pain in the right iliac fossa and the low tempera ture and pulse rate The patient s father had died of tuberculosis and the patient bad had attacks of abdominal pain since childhood. These facts suggested the possibility of occlusion by a band or an adhesion due to an old tuberculous peritonitis Rectal palpation combined with hypogastric palpa tion gave the impression of distended loops of small intestine and elicited a splashing sound. The condition was believed to be a localized occlusion of the small intestine probably by a band

Operation showed some of the loops of small intestine strangulated under a red cord resembling an intestine without a mesenters. The latter proved to be a Meckel's diverticulum 15 cm long which was firmly adherent in the retromesenteric fossa to the posterior abdominal wall. The cord was cut be tween two ligatures with the thermocauters. Near its parietal insertion it had no lumen. The diver ticulum was resected at its insertion into the in testine and the wound drained Uneventful recovery followed

Two points of interest in this case were the strangulation of the small intestine by a fixed diverticulum which with the mesenteric cord stretched behind it formed an unyielding band and the existence of the malformation in the um bilical region which the author thinks is an im portant diagnostic sign in such a case

AUDREY G MORGAN M D

Lavesson II Studies on So Called Heocarcal Invagination (Studien ueber die sogenannte In vaginatio ileocaecalis) Acta chirue Scand 1026

The author describes the following forms of intussusception occurring in the ileocacal region

 Caccal invagination—invagination of the car cum only a cacocreal invagination or of the cacum into the colon a cacocolic invagination the ileum remaining in its usual place

2 Cæco ileocolic invagination a further develop. ment of the cacal invagination the ileum being drawn up into the colon

3 Ileocolic invagination an invagination of the ileum into the colon with the execum remaining in its place

4 An ilcocarcocolic invagination a further devel opment of 3 in which the creum is drawn up into the colon

Of these various forms the execuleocolic in vagination is by far the most common. Of twenty four cases of intussusception observed at the Trelle borg Municipal Hospital eighteen were of this type The purely caecal type occurred in five cases where as only one case of the ileocacocolic variety was observed There was no case of ileocolic intussus cention

From his own observations the author concludes that the most common cause of the invagination is ordematous inflammatory changes in the mucous membrane The frequency of such changes in the cacum is due to the structure and shape of this portion of the intestine and its greater bacterial content as compared with the ileum. The inflam matory ordema varies considerably sometimes lead ing to such marked swelling of the intestinal wall as to simulate a tumor. In other cases the changes are less pronounced being confined to one or several

The author deals with the symptoms in the different forms of intussusception and the possibil

ities of establishing the diagnosis

Although admitting that excellent results may be obtained by non-operative treatment he is of the opinion that with the present improved surgical technique the condition should be treated surgically In the twenty four cases reviewed all of which were operated upon a premanent cure was obtained

Hurst A F The Diagnosis and Treatment of Colitis Lancet 1926 ccxi 1151

No diagnosis is made with greater frequency and with less justification than that of colitis diagnosis of colitis should never be made until a thorough investigation has shown that inflamma tion of the colon alone is present

The presence of mucus is not indicative of colitis Repeated sigmoidoscopic examination of patients passing large amounts of mucus have failed to show the slightest sign of inflammation. In true colitis the mucus always contains pus cells The presence of visible blood indicates ulcerations

resection, they should be resected before the suturing is begun. It is best to make a double row of interrupted sutures and protect the suture line with omentum.

The end to end anastomosis is preferable to lateral union hecause of the danger in the latter of a blind sac Drainage and tamponade is dangerous and

superfluous

In the two stage resection the spur should he as short as possible The procedure of Payr is usually best

In the formation of an artificial anus it is desirable to pull the colon through the separated fibers of the rectus muscle as this gives some degree of control over the artificial anus. In the closure of an artificial anus or a fecal fistula the surgeon should not hesitate to open the abdominal cavity as the will allow a more careful suture of the bowe! The old

skin plastics should be ahandoned In the discussion of this paper, BRUEVING (Lichterfelde) reported two cases of megacolon The first was that of a newborn infant with what was at first believed to be atresia. The true nature of the condition was revealed by the A rav Diges tion was improved by daily enimas. The second case was that of an 8 year-old boy with marked dilatation of the entire colon Because of increasing pain, a total resection of the entire colon was done with lateral anastomosis between the lowest part of the ileum and the rectum. The operation was well tolerated, but the patient died four weeks later of a phlegmon of the floor of the mouth which probably had some relation to it Both cases demonstrated the congenital nature of the condition and supported Bruening s hypothesis that the cause of the giant growth of the colon is trophic dysfunction conse sequent upon an abnormal anlage of the segmental vegetative centers in the spinal cord

Besides this congenital megacolon with dilatation of the entire colon including the exeum and appendix, there is an acquired megasigmoid which is brought about by mechanical hindrances such as valve formation kinhs almormal loop formation, shinhsage of the mesocolon scar tissue and spastic conditions and is usually limited to the sigmoid only occasionally involving the descending colon Whereas this condition may he cured by a partial

operation, true Hirschsprung & disease requires total

esection

STEINTHAL (Stuttgart) discussed the pathogenesis and operative treatment of megacolon. He agrees with Nordmann on the subject. He reported the case of a 30-year-old patient who since childhood, had had an enlargement of the colon extending from the sigmoid to the ascending colon and to the rectum. On account of the increasing pain, a several stage resection was done. Because of the extent of the condition, this case refutes the neurogenic theory of Bruening. Moreover, since after the formation of the artificial anus the irrigation fluid passed not only from the rectum to the artificial anus hut also in the opposite durection, it refutes also the mechanical

theory favored by Koenig and the view of Perthes that there is a valve formation at the root of the sigmoid flevure. Yeay examination made after the administration of bismuth by mouth showed, at the transition of the distal loop of the sigmoid flevure into the rectum a kink which was not seen in the first examination with the barume nema. Steinthal attributed the kink to the sinking of the heavy flevure into the small pelvis. He believes this to have been a case of congenital megacolon causing increasing difficulty with the larse of time.

KLEINSCHMIDT (Leipzig) discussed the etiology of megacolon. He called attention to the fact that there are three nerve tracts to the lower portion of the colon (1) the autonomic system, which is located in the intestinal wall, (2) the vegetative (sympathetic and parasympathetic) system and (3) the spinal nerve system. He described briefly the complicated act of defecation. In the dog there is a special nerve the nervus pelvinus, which supplies the lower part of the large intestine Sec tion of this nerve is followed by dilatation and obstipation of the loops it supplies, this is demon strable with the \ ray In man, the nerve corres ponding to the nervus pelvinus is the ramus colicus of the sacral nerve. In one case of Hirschsprung's disease kleinschmidt was able to demonstrate deficiency of this branch

Budde (Cologne) stated that in his opinion sten oses of the intestinal tract are usually due to strangulation and volvulus during embryonic development. In most cases the intestine is able to untwist itself spontaneously, but in others it is not Budde reported a case in which the entire first part of the colon was involved the occlusion extending up to the flexure. The cascum was found high under the liver. The colon was twisted on its long axis Budde agrees with Nordmann that the treatment of these atreasis and stenoses should be as conservative as possible. As the condition is often fatal after the formation of a fistula an attempt should be made to effect an anastomosis. Budde reported the cases.

KEYSSER (Lichterfelde) discussed the one stage resection He claimed that the chief dangers are the suturing of the colon to the colon and the frequently unavoidable tension. He has therefore attempted to unite the colon with the small in testine with a lateral anastomosis which, hecause of the dangers of the multiple stage operation, he Leysser has resected in this does in a one stage manner (ileo colonic resection) tumors of the splenic flexure and the upper part of the descending colon as well as those of the ascending colon When the omentum is invaded it is resected with the tumor The operations were done for the most part under local anæsthesia (infiltration of the codiac ganglion and the mesocolon) In two cases of ileus due to carcinoma he performed the operation in one stage In cases with stasis in the small intestine or a he ginning peritonitis, an artificial anus must he made In eight cases operated upon in this way there was

only one death that of a patient who deed of pneumonia on the sixth day after the operation. There were no disturbances of the intestinal tract Extensive resection is followed by diarrheea but this ceases after three or four months.

MELZNER (Koenigsberg) discussed end to end versus lateral anastomosis of the bowel. In experi ments on animals the function of the two types of anastomosis was observed in the open abdominal cavity after stimulation of the peristalsis by the local application of 10 per cent barium chloride solution. In the lateral anastomosis the ring shaped wave of contraction was absent from the entire area of anastomosis whereas in the end to end anasto mosis the peristalsis was completely normal clear up to the point of union Melzner attributes the difference to the fact that in the lateral anastomosis the circular fibers are severed and thus are thrown out of function whereas in the end to end anas tomosis they remain intact. On the same grounds end to end anastomosis if preferable to side to side anastomosis

HARTERT (Neustrelitz) stated that for the treat ment of volvulus of the sigmoid flexure colonexy is no longer in favor since in spite of very eareful fixation recurrence develops relatively frequently and on re-operation it is found that the fixation is entirely loosened or the adhesions between the loop and the abdominal wall have been drawn out giving the loop sufficient mobility for retwisting Since the other conservative methods may also be followed by recurrence resection is becoming more and more the procedure of choice for all cases of volvulus Hartert believes that this is going too far The danger of primary resection of the colon is out of proportion to the simplicity of the con ditions in uncomplicated volvulus Detorsion avoids every immediate danger and in a large percentage of cases results in an apparently permanent cure The harmless colonery will come more into favor in such cases when its certainty will have been increased Its results are greatly improved by fixation of the loop with living tissue analogous to the procedure of Perthes in which the ligamentum teres of the liver is employed to support a prosed stomach In one of his cases Hartert used the following procedure

Detorsion was done through a midline incrsion. The loop was then empticed of gas by puncture and fluid was removed by massaging it out through the anus through an intestinal tube. Then through another incrsion in the left flank the signoid was pulled out into the correct position with control from the midline incrsion. A broad strip of aponeuro oblique muscle but left stateded to the massel by a pedicle. This strip of aponeurosis was pulled through the upper part of the mesosigmoid. The loop was then brough the other brough the corress fixed to the abdominal wall.

Three months after the operation the loop was still in position Colopers is contra indicated in cases with gan grene and in protracted cases with overloading of the rest of the bowel

FISCHER discussed the results of the surgical treatment of colitis The etiology of this condition is variable Fischer is opposed to irrigation methods and the Witzel fistula In this condition there are anatomical borders formed by epithelial regenera tion and the formation of scars which interfere with function Fischer studied these borders in animals Scars in the submucosa make of the bowel a dead tube In the presence of confluent ulcers larger than a mark the surgeon should not hesitate to perform a resection but this stage should be pre vented by early care Fischer does not agree with Nordmann that acute colitis should never be treated by the formation of a fistula. He believes with Hochenegg that such treatment is warranted in severe cases With regard to cancer Fischer stated that he does not depend entirely on the \ ray for the diagnosis as roentgen examination gives four times as many negative as positive results. With regard to the innervation of the lower colon de scribed by Kleinschmidt he stated that after re section of the rectum defactation often ceases and faces remain in the colon. This may well be explained by an injury to the ramus colicus

KAUSCH (Berlin) reported that he prefers lateral anastomists with the smallest possible blind sac In complicated cases he draws the bowel out at the site of the volvulus or megacolon. In his opinion it is not necessary to resect the entire colon in megacolon.

FISTERER (Venna) agrees with Nordmann that colon resection is not without danger but he believes also that entero anastomosis is no less dangerous. The chief essential is evacuation of the bowel to remove the torus before operation. If this is successful resection may be performed even no old persons. Finsterer favors a very broad (no em) lateral anastomosis. The blind sac should be as small as possible.

BEFAUTT (Luebeck) discussed methods for the closure of an artificial anus. The never methods depend upon the formation of a Sauerbruch canal through which closure is effected by the introduction of an instrument. The pressure produced in such methods may result in an intestand fistual. In the method used by Breatit the attempt is made to prevent this complication. The transverse colon is pulled out through an incisson under the nh margin and covered by a skin flap. This portion of hovel covered with skin is then held closed by pressing it up against the rib margin by a pad. The pad is removed for one hour every day to permit bowl movements. Healing occurs in the days during which time opium is administered to place the bowel at rest.

Vov Beck (Karlsruhe) has attempted complete colon resection in fifty four cases. He found that in some cases lateral anastomosis was followed by pain due to antiperistaliss whereas end to end anasto

moss had no painful sequelæ In resection he has not sutured up the blind end hut has brought it out etternally In ten cases of ulcerative colius he performed extensive resections, in some instances in three stages There were only two deaths In many of the cases the condition developed during

an epidemic of dysentery

Anschuetz (Kiel) stated that in his opinion too much resection is being done in megacolon primary dilatation usually occurs in the sigmoid, the dilatation of the rest of the colon being second ary Consequently it is sufficient to resect only the sigmoid This he did in the cases of seven children under 5 years of age In volvulus he has tried exte monization with variable results These cases must he individualized, operation sometimes being per fomed in one stage and sometimes in several stages In general, primary resection is best, but in difficult cases fixation is justified Anschuetz has seen very difficult cases of chronic colitis following dysentery He is accustomed to making a very high lying anus He often performs an exploratory operation to determine the condition of the bowel He recalls tumor like formations which were due to trico cephalus. In acute colitis he has saved a few lives by operation, but has also lost many cases

KOERTE reported a case of chronic colitis in which he established his enteric fistula. The patient now feels so well that he will not permit closure of the

fistula

ORTH (Hamburg) emphasized the importance of the Yray in revealing the extent of intestinal tuber culosis and as an aid in the diagnosis of ulcerative colitis. He warned that in intestinal tuberculosis ileosigmoidostomy may be followed by a fatal diarrhoza

PERTES (Tuchingen) stated that he has operated on only three cases of megacolon since 1914. All of the operations were one stage resections and resulted in a cure. In one case of severe habitual obstipation he removed the left half of the colon including a large part of the flexure. He considers it essential to leave part of the colon. Of late he has been using copious irrigations of water to empty the bowle.

PEND. (Troppan) reported that he is in favor of giving cashr oil the day after a colon operation. He has performed colon resection in forty two cases with only two deaths. One death was due to the performance of the operation in the absence of the proper indications and the other to the removal of a myoma at the time of the colon resection.

REIGIEL (Chemnitz) stated that in the absence of complications and faceal stasis colone tumors may be removed in one stage but such favorable conditions are not found frequently. The chief danger lies in failure of the sutures due to the impaction of faces. A one stage operation is usually possible on the right scheckness are more fluid. Of twenty five resections for carcinoma of the sigmoid fleture. Reichel was able to do only six in one stage. His total mortality

for colectomy is 22 per cent. In his cases of car cinoma of the flexure the mortality of several stage

resection was 15 8 per cent

PAYR (Leipzig) recommended for cleansing of the bowel for I ray work pre operative and post operative care of the colon, and the treatment of chronic obstipation the irrigation apparatus which has been used by him with very good results since 1011 For cases of obstruction due to mechanical causes operative interference is necessary for per manent results Payr reported a case of gradually increasing stenosis at the flexure with menstruation through the rectum The occurrence of an injury during a dilatation of the cervix performed some time previously was improbable. The X ray showed marked adhesions and torsion of the sigmoid flexure above the rectum Operation revealed in addition a broad band like adhesion between the fundus of the uterus and the sigmoid fresh inflammatory adhesions, and a tumor in the bowel wall Payr established an artificial anus with the intention of performing a resection later. He asked if similar cases of menstruation through the rectum were The studies of Schmieden suggested the possibility in this case of a hidden papilloma since on one occasion a necrotic piece of tissue with a glandular structure was expelled

Now HOFFMEISTER (Stuftgart) described a common type of case which begins with a sudden passage of faces followed by obstipation and in which the Nray shows stagnation but no stenosis and the bowel movements are interfered with by a membrane formation. The treatment in such a case is division of the membrane or the establishment of an anastomous between the jejunum and the

transverse colon

HUEBENER reported a case of injury of the colon to which a piece of tissue r5 cm long containing mucosa and submucosa was removed. An artificial anus was then formed and later was closed. A cure resulted

In conclusion Nordmann stated that operation is rarely indicated in acute colitis. In contrast to Finsterer he believes that resection is a more for midable procedure than anastomosis. He would hesitate to give castor oil immediately after the operation as recommended by Pendl. He believes that the coordition in Payr's case was a sigmoidition and that a perforation occurring in the dilatation of the cervit was the cause. He emphasized the importance of receiving cases in the uncomplicated stage when a one stage operation is possible

STETTINER (Z)

Livingston E M The Skin Triangle of Appen dicitis A Discussion of Its Significance and Its Diagnostic Value as Observed in More than 400 Cases of Acute Appendicitis 1rch Surg 1026 yul 510

The most reliable single diagnostic sign of acute appendicitis is cutaneous hyperæsthesia in the skin triangle. This was noted in 86 per cent of 428

only one death that of a patient who died of pneumonia on the sixth day after the operation There were no disturbances of the intestinal tract Extensive resection is followed by diarrhera but this ceases after three or four months

MELZNER (Loenigsberg) discussed end to end versus lateral anastomosis of the bowel In experi ments on animals the function of the two types of anastomosis was observed in the open ahdominal cavity after stimulation of the peristals by the local application of 10 per cent barium chloride solution. In the lateral anastomosis the ring shaped wave of contraction was absent from the entire area of anastomosis whereas in the end to end anasto mosis the peristalsis was completely normal elear up to the point of umon Melzner attributes the difference to the fact that in the lateral anastomosis the circular fibers are severed and thus are thrown out of function whereas in the end to end anas tomosis they remain intact. On the same grounds end to end anastomosis if preferable to side to side

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FINSTERER (Vienna) agrees with Nordmann that colon resection is not without danger but he believes also that entero anastomosis is no less dangerous The chief essential is evacuation of the bowel to remove the toxins before operation If this is successful resection may be performed even on old persons Finsterer favors a very broad (10 cm) lateral anastomosis The blind sac should be as small as possible

BREWITT (Luebeck) discussed methods for the closure of an artificial anus. The newer methods depend upon the formation of a Sauerbruch canal through which closure is effected by the introduction of an instrument. The pressure produced in such methods may result in an intestinal fistula. In the method used by Brewitt the attempt is made to prevent this complication. The transverse colon is pulled out through an incision under the rib margin and covered by a skin flap This portion of bowel covered with skin is then held closed by pressing it up against the rib margin by a pad. The pad is removed for one hour every day to permit bowel movements Healing occurs in ten days during which time opium is administered to place the bowel at rest

VOY BECK (Karlsruhe) has attempted complete colon resection in fifty four cases. He found that in some cases lateral anastomosis was followed by pain due to antiperistalsis whereas end to end anasto

sphincteric fibers in the surrounding tissues, there may be no symptoms at any age. When the open ing is small, symptoms consisting chiefly in constitution, colic vomiting, tympanites and some times obstruction, appear early. In old cases there may be enormous distention of the large bowel and rectum. While the physical suffering is of chief importance, the mental anguish in these cases is also considerable.

For immediate treatment in the newborn infant the author recommends simple dilatation with no further measures until the age of puberty Operation thereafter offers much in the way of rehef

After discussing the various operative procedures heretofore used, the author reports a case and describes the method used by him in the correction of the defect in this instance. An incision through the skin and superficial tissue was made from the fourchette to the tip of the coccyx and a circular incision outside the rectoyaginal opening Then. after dissection of the posterior vaginal wall, the entire fistulous tract connecting the vagina and rectum was treed, a passage was made with a hemostat from the normal anal site to the juncture of the fistulous tract and the rectum, and the vaginal opening of the tract then carried down through this muscular tunnel to the site of a normal anus where the new opening was fixed to the skin edges All defects were then closed and the raw edges approximated as in perincorrhaphy

The procedure described seems to offer a simple means of correcting atresia ani vaginalis for the

following reasons

r The avoidance of extensive cutting tends to lessen scar tissue formation and contraction with narrowing of the anal canal

2 The use of the fistulous tract for the analoutled renders the procedure simple and practical

3 The utilization of the apparently normal

sphincter results in entirely satisfactory control

4 The development of normal sphincteric support materially lessens the chance of rectal prolapsLACOB M MORA, M D

functional tests designed to measure hepatic ab normality must be of limited value

Combined with other tests the Rosenthal tetra chlorphthalein test has proved of distinct value though in some instances it has a toric effect. The authors believe that bromsulphalein is far le s toxic than tetrachlorphthalein and gives equally reliable results in the determination of hepatic function

WILLIAM E STACKLETON M D

Matcer J G and Henderson W S Chronic Biliary Tract Disease The Diagnostic Criteria 1rch Int Med 1926 TTTVIII 708

A careful analysis of the diagnostic data in relation to the pathological findings in minety four con secutive eases of proved gall tract disease shows the great importance of the clinical findings in lur nishing evidence of pathological morphology of the gall tract In forty one of these cases gall stones were present. In thirty six (with or without calculi) there was chronic cholecystitis with pericystic ad hesions In fifty three there was chronic chole cystitis without stones or adhesions

Chronic interstitial hepatitis and chronic cholan gestis with dilatation of the larger extrahepatic bile ducts was found associated with chronic gall tract

disease The symptoms indicative of gall tract disease are classified into four groups (r) anoresia asthenia and loss of weight (2) arthritis myositis and neuritis (3) belching bloating heartburn nausea and vomiting and (4) localizing symptoms par ticularly characteristic pain

Physical examination aided greatly in the differ ential diagnosis The most valuable sign was definite tenderness in the gall bladder region on palpation upward under the right costal margin Examination in the sitting position frequently aided in differen

tiating colon tenderness Cholecustography afforded reliable information in o 6 per cent of the cases The oral administration of the dve has proved unobjectionable and reliable in practically all cases. Bilary drainage afforded important evidence of chronic cholangeitis and bilirubin determinations revealed liver involvement

WILLIAM E SHUCKLETON M D Denton J The Mode of Origin of Gall Bladder

Lesions 1rch Surg 19, vis 1 This study of gall bladder lesions was undertaken to determine by what processes some of the common ly observed lesions and pathological states of the gall bladder are produced. It was thought at first that a correlation of bacteriological and histological findings in the gall bladder would give this information but bacteria were often cultivated from gall bladders that showed no lessons and obviously pathological gall bladders often yielded negative cultures Much more valuable information was obtained from a study of the clinical histories operation notes of surgeons and the gross and bistological condition of the gall bladder

A review of the clinical historics and operation notes revealed that recent and extensive changes in the gall bladder were almost always accompanied by severe pain. Acute lesions were frequently not accompanied by a febrile reaction or an important increase in the leucocyte count. In cases of im paction of a stone in the cystic duct recent and ex tensive changes were usually found in the gall bladder whereas impaction of a stone in the common duct was usually not associated with extensive call bladder changes

A comparison of the gross and microscopic changes in the gall bladder in eases in which cholecy stectomy was performed within two or three days after the impaction of a stone in the eystie duct made it clear that the primary lesions in the gall bladder were intrimural cedema venous distention and an intra mural hamorrhage or intramural hamatoma

As it was impossible to demonstrate lesions that were primarily of bacterial origin. Denton is of the opinion that other lactors than bacterial infection are necessary for the explanation of some of the com

monly observed lesions of the gall bladder 'subacute and He regards the terms acute chronic cholecy stitis as undesirable because they suggest an infectious origin of the condition Patho logical states of the gall bladder he behaves should

be described in morphological terms such as orde cedema and hymorrhage partial infarction complete infarction ordem

atous cicatrix and cicatrix ARTHUR L SHREFFLER M D

Bérard and Mallet Guy The Syndrome of Lithi asis of the Gall Bladder Due to Chronic In flammation of the Panereas (Syndrome vest culaire pseudo lithiasique lié sans doute à l'évolution d une inflammation chronique du paneréas) Lion

cher 10 6 TTILL 611 Sometimes symptoms of gall stones are due to chronic cholecystitis without lithiasis but in some cases with such symptoms no signs of inflammation of the gall bladder can be found. The authors re port a case of the latter type in a noman of 24 years who at first complained of rather vague intestinal symptoms but finally developed distinct attacks of gall stone colic which led to the performance of a cholecystostomy Examination through the duo denal sound showed a disturbance in bile secretion a normal flow of bile could not be brought about by the method of Meltzer and Lyon Duodenal ex amination demonstrated also defective internal secretion of the pancreas Roentgen examination of the duodenum did not show any deformity

A study of the gall bladder fistula by roent genography with the use of lipiodol showed that the gall bladder was still large and that there was a stenosis of the entire pancreatic part of the common duct The authors believe that this method of examination gives as valuable information with regard to the bile tract as is given by pvelogra phy with regard to kidney excretion. In the case

reported the findings of this examination and the lact that the symptoms disappeared while the gill bladder fistula was open and re appeared when the fistula closed up led them to perform a cholecysto gastrostomy. Clinical and roentigen examination of the anastomosis showed that the hile was being excreted solely through the new opening and not by the natural route. This fact shows that there must have been some obstacle to the normal discharge of the bile.

The authors think the obstacle was the stenosis of the pancreatic part of the common duct by the chronic inflammation of the pancreas. They have been unable to determine the cause of the chronic pancreatitis and are unable to say what the outcome will he as persistence of the inflammation is indicated by continued lumbar pain which is one of the car dinal symptoms of chronic pancreatitis.

AUDREY G MORGAN M D

Counseller V S , and McIndoe A H Dilutation of the Bile Ducts (Hydrohepatosis) Surg Gynec

The biliary tree of various types of the liver of man was examined by the celloidin injection and

corrosion method in twenty six cases

In ten normal livers the common hepatic ducts
were found not to exceed a mm. in internal diam.

were found not to exceed 5 mm in internal diam eter, while the succeeding branches diminished in size to 0 05 mm in the fifth order

Of eight livers from cases in which the gail bladder contained unsuspected stones a general enlargement of the ducts was found in seven the dilatation in the common hepatic duct was between 6 5 and 11 5 mm. The dilatation was greater when the associated damage to the gail bladder was more severe. In the case with no dilatation the gail bladder contained three small stones but was otherwise apparently normal.

Dilatation occurred in the liver in all of three cases in which cholecy stectomy had heen performed for cholecy stitis with stones eight nine and ten days previous to death hut was least marked in a case in which an internal fistula between the gall bladder and colon was found at operation

In five cases of hengin or malijanant stricture of the common duets the amount of dilatation was very extensive ranging from 10 to 30 mm in the common hepatic duct. The process extended throughout the whole bilarly tree grossly as far as the fifth order of branches. The more complete the stricture and the longer its duration the further out the extreme change occurred and the more abrupt the transition from dilatated hranches to terminal filaments.

Attention is called to the atrophy of the hepatic parenchyma resulting from the pressure of the enlarged ducts the obstruction to the portal venous flow from lateral biliary pressure and the rapidity of infection from stasis.

The term 'hydrohepatosis' adequately describes the condition

Brule Intermittent Icterus in Calcareous or Cancerous Obstructions of the Common Bile Duct (Les icters intermittents dans les obstructions calculeuses ou cancereuses du canal cholodoque) bull et mem Soc méd d hop de Par 1936 (the 1497)

To differentiate the icterus of chronic hepatitis from that of obstruction of the common hile duct is often difficult. To distinguish a stone in the common duct from a cancer of the pancreas or the choledochus is chinically still more difficult many cases show such anomalies in the symptoms or the clinical evolution that an exploratory lapa rotomy is unhesitatingly advised to verify the con dition of the common duct Theoretically, an obstruction from either a stone or a neoplasm of the common duct should cause an intense continuous icterus because the obstruction is permanent vet the acterus due to stone varies more than that due to cancer This variability is relative and based on a continuous icterus with exacerbations due to at tacks of more marked bihary retention. Often an important obstacle at the common duct causes only slight acterus which is purely probiting and without true biliary or urinary pigments because the bilirubin retention in the blood is not high enough to pass the excretory threshold. In the icterus of hepatitis probilinuria is especially noted At times, although the obstruction in the common duct remains, the bile retention becomes still less and may even disappear completely. Such a condition is paradoxical-permanent obstruction of the common duct with an intermittent icterus-and often leads to the delay of surgical intervention which would effect a definite cure if the obstruction is a stone Brule considers such cases not very unusual He reports four with permanent obstruction of the common duct and attacks of deep intermittent jaundice lasting three or four days

Calcareous obstruction depends on two mechan scal factors—the size of the stone and the caliber of the duct A tiny stone may block a normal duct on the other hand the choledochus may dilate to the caliber of the small intestine. The stone whatever its size, will not completely obliterate the Canal, the hile will flow around it Common duct stones with out icterus are not exceptional, as is well known The additional factor of inflammation is necessary to complete the obstruction Irritated by a stone the choledochus the lower end of which is usually septic develops inflammatory attacks with swelling of the mucosa causing obstruction around the stone Brule considers the inflammation localized to the choledochus and not to the small bile ducts, ie a choledochitis rather than an angiocholitis In his two cases of stone the attacks were associated with fever but not with a painful liver as in angio chohtis When the infection and swelling subside the hihary retention clears suddenly in hepatic cell lesions the jaundice regresses gradually. The intensity and frequency of the secondary infection regu lates the appearance of attacks of hiliary retention

Two of the authors cases were cases of cancer of the pancies as The internitient bidary obstruction is singularly more abnormal in pancieatic cancer Theoretically this condition should be associated with a permanently progressive interns To explain the intermittent jaundice the Same factors are necessary a in stone (i) incomplete obstruction by the cancer and (2) attacks of inflammatory swelling of the choledochus at the level of the cancer set up by the irritation from the growth

An important finding in the four cases which facilitated the diagnosis of common duct obstruction was the accordion liver action. At each attack of bilary retention the liver was hyper trophied smooth of normal consistency and pain less or only slightly painful to deep pressure. When the bilary retention yielded the liver resumed its normal size or diminished considerably. The bepatomegally is clearly differentiated from the chronic hepatomegally of primary hier disease. The hepatomegally which varies with the sterus is of true diagnostic value and points strongly tool struction of the principal bull passages. At autopsy such an enlarged liver is gorged with bile and the dialeted bile ducts form verticable cavities.

WALTER C BLRKET MD

Dias G. L. and Duval. P. Adenoma of the Hepatic Duct with Chronic Obstructive Icters. Removal of the Tumor and Repair of the Hepatic Duct by a Flap from the Cystic Duct Cure (Widnome du canal hépatique ixtère chronque par rétention ablation de la tumeur reconstitution de la voie bliare principale par un Emibeau du cystique guitri on). Bull et niem. See nat de chir 150 lin

The patient whose case is reported was operated upon for supposed calculus of the common duct Challenter of the cysic and hepatic ducts a 9 6 per cent on its longest diameter was found of the dye has proved udited by sing a diameter of in practically all cases. I conclose the tumor as important evidence of bepatic duct immediately bilirubin determination duct. Therefore following bilirubin determination duct.

nepatic duct and the adjacent

Denton J The the cystic duct was done The
Lesions Appared duct was then repaired with

This study of by the remains of the cystic duct a to determine b being left for the passage of a drain ly observed le proved to be an adenoma. This was bladder are player arisen in the pseudo glandular orrelation of in the gall bi rmally found in the walls of the bile.

Athers F De Groat M D
bacteria were
that showed D
gall bladders 300

gair increases and more valuable actities while an uncommon disease study of the surgeons and most serious conditions occurring in surgeons and In reviewing twenty one cases the the gall bladd he average age of the patients to be

so years The condition is more common in fe males than males

Pathologically it is found that the pancreas is this site of an inflammatory swelling which becomes tense and presses on the creliae picrus. This explains the acute nature of the poin and the severe accompanying shock. The swelling is followed by an effusion into the lesser sac of the pentioneum which later suppurates and accounts for the full ness or swelling in the upper abdomen. The exudate finally finds its way through the foramen of Win slow and general involvement of the pertioneum results. Scattered throughout the abdomen and elsewhere there are areas in which the pancreating lapses blearach has saponified the neutral fasts.

The infection may be due to the regurgitation of infected bile into the pancreas lymphatic infection from the sall bladder infection from the sall bladder.

duct or foci of infection elsewhere

The author believes that there is often an infection of the gall bladder in acute pancreatitis and that this infection can travel to the pancreas by way of the lymphatics. Regurgitation of bile into the pancreas is not common being usually prevented by a valve in the pancreas was the pancreas to the pancreas that the pancreas the pancreas that the pancreas the pancre

venton by a vaive in the pancreauc duct.
Acute pancreatitis is characterized by the seventy
and acuteness of the onset of symptoms. Two im
portant diagnostic signs are marked cynosis prob
ably due to the presence of a septicermia and
discoloration in the flank due to a direct retro
peritoneal disceistion by the pancreatic ferments.

The treatment is surgical free drainage of the pertoneral cavity is indicated. The author believes that the gall bladder should be drained in addition to the lesser sac. It may be possible to drain the lesser sac by a posterior incision resecting a portion of the tenth rib in the mid nullary line. The drain age tube should be removed as soon as possible to prevent the formation of a permanent pancreatuc fistula but if it is removed too early and the wound is allowed to heal a pancreatuc cyst is hable to develop. It is unsafe to remove the tube until the discharge has become small in amount.

From the tenth to the fourteenth day during convalescence when the sloughs are separating there is danger of secondary homorrhage. Drainage may be interfered with at this time with a resulting return of the symptoms.

It is possible for recovery to result under medical treatment but surgery bas a lower mortality rate

CYRIL J GLASPEL M D

Quenu J The Diagnosis and Treatment of Traumatic Rupture of the Spleen (Diagnosic et traitement des ruptures traumaiques de la rate avec hémorrhaje en périonne libre) J de chir 1996 vvrus 393

A favorable prognosis in rupture of the spleen depends upon early recognition of the condition and prompt intervention. The diagnosis of rupture of the spleen is based on the circumstances of the accident usually a rather severe trauma to the left hypochondrum The malarial spleen and the spleen affected by various diseases such as thyroid, pneu moma, tuberculosis, etc is very hable to rupture even with moderate trauma. There is a state of shock often with an initial syncope. The author says, "Delayed syncope following an abdominal trauma by several minutes hours, or days especially if the trauma was sustained in the left hypochon drium, is an almost pathognomonic sign of rupture of the spleen, it means that the injured spleen begins again to bleed, and constitutes, to my mind, a formal indication for operation."

Fam is an important symptom, especially so if it is intermittent. It is located most frequently in the left hypochondrium, but in 10 per cent of the cases occurs in the left shoulder. Rigidity in the left upper quadrant is probably the mot valuable sign. In some cases, however rigidity may be generalized or absent. Dulness is also an important sign but is often absent because of meteorism. Acceleration of the pulse, even when moderate is an indication for operation, but its absence does not justify delay

The temperature is subnormal at first but soon rises and tends to remain around 100 4 degrees F, which the author considers almost pathognomonic of the condition \omiting and urinary retention are not very valuable signs. Laboratory aids are of little value except as indicators of the amount of hæmorrhage Various types of clinical courses are described in detail. The diagnosis is made in about 23 per cent of cases, and the diagno is of internal hamorrhage is about 10 per cent more. The condition may be confused with peritonitis perforated appendix perforated gastric ulcer, ruptured tu bal pregnancy, or diaphragmatic pleurisy fracture is present in about 15 per cent of the cases hamothorax in probably more than 5 per cent and injury to the left kidney in ro per cent

The treatment is splenectomy as soon as the diagnosis is made or suspected. If the diagnosis is made the author recommends an incision which gives good access to the spleen, starting at the left costal margin at the eighth interspace and descend ing obliquely downward toward the umbilicus If hamotborax is present he advise continuing the incision upward to the costal margin cutting through the rib cartilages, and converting the operation into a thoracolaparotomy Blood trans fusion may be indicated postoperatively but the author does not recommend the practice of leaving the blood in the peritoneal cavity or of re injecting it intravenously. Conservative measures such as suture, partial splenectomy, or tamponade are hazardous and in the main useless. As a rule no lasting ill effects follow splenectomy, but in some cases the loss of the spleen at a time when the patient is already weakened may have fatal conse

The author reviews 353 cases reported in the hiterature since r885 and reports nineteen additional cases. The article is supplemented by an extensive bibliography. MICHAEL L MASON M D

MISCELLANEOUS

Aumont and Gregolre Severe Contusion of the Abdomen with Disinsertion of the Mesentery Immediate Resection of the Right Half of the Colon Open Fracture of the Patella (Contusion abdominate grave desinsertion mésentérique herri colectome droite d'urgence fracture ouverte de la rotule) Bull et mém Soc nat de chir 19 6 lu 1955

The patient whose case is reported was injured in an automobile accident. At operation performed immediately, the distal 20 cm portion of the illum was found form from its mesentery and the meso of the ascending colon presented an irregular tear Resection of the portion of injured illum and of the prostneth laff of the colon was done. A di fuse heem orthage from the posterior abdominal wall was arrested by the placing of a Mikulicz drain

The open fracture of the patella which the patient had sustained was treated by suture ten days after the accident. No infection developed in the knee The patient made a satisfactory recovery

In the discussion of this report there was criticism of the delay in the treatment of the fracture as the experience of the war showed that joint lesions should be operated upon immediately regardless of the associated injuries. ALBERT F DO GROAT M.D.

Bérard and Dunet Roentgenography of a Suh phrenic Abscess (Radiographie d'un abcès sous phrénique) Lyon Chir 1926 xxiu 652

After transdapbragmatic drainage in a case of subphrenic abscess an injection of about 50 c cm of hipodol mixed with 30 c cm of steriliz d oil was made through a Nelaton sound which was easily shipped between the convex surface of the spleen and the diaphragm. The roentgenogram showed a very tortious cavity with many diverticula on the convex surface and at the upper pole of the spleen. The abscess extended to the midline with many processes, and the roentgenogram shows bow difficult it would be to drain it.

The roentgenogram is valuable in such cases as it shows the surgeon just where drainage and coun ter openings should be made

Audres G Morgan, M D

Berard and Dunet Hæmatoma of the Hiat Fossa In a Hæmophilia. Operation Followed by Severe Hæmorrhage Intravenous Injection of Citrate Recovery (Hematome de la fosse hiaque chez un hémophile intervention suive d'hemorrhagie grave injection citratée intra veneuse guérison) Lyon chir 1926 vui 622

The patient whose case is reported was a boy of its years who was sent to the bospital with a probable diagnosis of sarcoma of the pelvis. An exploratory operation revealed a large hematoma of the iliac fossa. The family history, obtained after the operation, showed undoubted maternal hemophilia At 3 years of age the patient was treated for what was called a white swelling of the knee and at various times thereafter he had attaks of pain in the ankle and wrist joints which were called articular rheumatism. These were probably attacks of hazing philic arthritis as they appeared and disappeared quickly leaving the joints perfectly normal Recently the patient hegan to have difficulty in walking which hecame worse until he was unafile to extend his thip's completely and walked hent forward

Examination revealed a large swelling in the left laid fossa. The interference with movement of the hip joint seemed to he purely mechanical. Opera ton showed a large hamatoma from which a large quantity of black clots was removed. The effusion of blood had occurred between the hac muscle and the bone and extended backward and upward to the posterior superior spine of the ilium. There was no abnormal oxing during the operation and as the coagulation time was normal the wound was closed. For twenty four hours convalencence was normal

to revenly jour journs oth values are as a fine to the tend of that time the lare swelling began to recur rapidly and an infiltration of blood appears over the whole right half of the abdone's in the inguinal enals the reflect crotum and timely am rone; but the orange do not stop and timely am rone; but the orange do not stop and the blood would not cerugilate pulmonary complications and a linking here switch harmonic positions and intravenous impetion of 1 g c cm of citrate (a solution of sodium entrate combuned with citrate of manganese magnesum and ferri potas sum tartrately was given. After a period of citrates shock with exanosa and tachycardon 180 to 190 to 19

for two hours the patient recovered. The next day the oozing had stopped and his general condition was so good that transfusion was unnecessary

AUDREY G MORGAN M D

Brady L Solid Tumors of the Urachus Arch Surg 1927 xxv 46

Brady reviews the literature on solid tumors of the urachus and reports one case of his own hringing the total number of recorded cases up to twenty

The average age of the patients was 44 years. These tumors have been found more frequently in men than in women. In fourteen case reports no ectological factor was mentioned. In four cases the tumor developed from the walls of a urachal cyst. The symptoms were pain in the middle of the lower abdomen and when the hladder was involved, dusura not human and harmaturia.

Dighten of the tumors were malignant seven being sarcomata and eleven carcinomata. In four teen of the eighten cases of malignant tumor the bladder was invaded by the growth when the patient first sought treatment. It is often difficult to distinguish chinically between a malignant tumor of the urachus and an inflammatory condition of the anterior abdominal wall due to infection of urachal remains or urachal cvsts. However, in inflammatory conditions prin is apt to be the first symptom and fever and might sweets soon occur.

To effect a cure in a case of malignant urachal tumor a very radical operation must be performed As a rule this must include removal of the vertex of the bladder and of portions of the anterior abdominal wall Maritus L Shefffler W D

GYNECOLOGY

UTERUS

loung M and Stewart C Cancer of the Uterus

This is a statistical study of 214 cases of carcinoma of the uterus with special attention to the end results of operation

Ninety per cent of the patients were traced for five years (or until the date of death) and some longer than that Since cancer of the corpus uters is much less malignant than cancer of the cervix, these two groups are considered separately. There were 176 cases of cervical carcinoma and thirty eight of cancer of the body of the uterus. In both of these groups both palliative and radical operations were performed.

The mortality of radical removal of the uterus in cancer of the cervix is relatively high, but the end results of this operation are so favorable that at the end of four years the number of survivors is four times, and at the beginning of the sixth year, nine times, the number in comparable groups in a large series of cases permitted to run their course without treatment. Furthermore, the figures for cases of cancer of the body of the uterus treated by radical operation suggest an even more favorable result than is obtained in cancer of the cervix treated in like manner.

A study of the figures presented by the nuthors show that the age of the patients who have cancer of the corpus uten is about five years higher than that of patients with cervical cancer. It shows also that the number of children borne by the women with cervical cancer was about twice the average number borne by women with cancer of the corpus uten. PAUL W SWILT, M.D.

Heimann, F Pre Operative \ Ray Irradiation of Carcinoma of the Uterus (Anteoperative Reent genbestrahlung des Uterus carcinoma und ihre Infenwirkung) Pentralbi f Gynack 1026 | 1045

The author first attempted to improve the operative results in cancer of the uterus by preoperative irradiation. He tried all types of roentgen technique and although from the first there was a decrease in the ill simelling discharge and the pre viously ulcerative bleeding craters became covered over with smooth epithelium, he could demonstrate no change in the bacterial flora. He is therefore of the opinion that pre operative irradiation will not render the operation any safer in the sense that it deprives the bacteria of their nourishing medium—a view contrary to that held by Mayer of Tuebingen and Fuers of Zurich.

The most significant effect of the irradiation is that a parametrium which before the treatment was greatly infiltrated, after the irradiation was soft and normal to the touch as the result of the regression of the inflammation

As to the choice of time at which to operate after irradiation, the author's investigations showed that this is a perplexing question inasmuch as the deeper carcinoma cells are not affected by the treatment. The time should be that which permits the most favorable effect of the irradiation and will not delay operation sufficiently to favor dissemination of the cancer cells.

Heimann rejects the use of radium and meso thorium for pre-operative treatment as these substances cause technical difficulties in the operation He has never seen any complications following \(^1\) ray irradiation. The operation was at no time rendered more difficult and connective tissue changes were never seen. Hæmorrhage was no more profuse than is usually the case. The skin closed perfectly \(^4\)

The author would reserve pre operative irradia tion for selected cases since, between the time of irradiation and the operation, the viable cells can still proliferate and reduce the chances of success

SCHUMACHER (G)

ADNEXAL AND PERIUTERINE CONDITIONS

Tuffier T An Attempt to Protect the Ovaries
During the X Ray Treatment of Uterine
Fibroids (Essai sur la protection des ovaires dans
le traitement des fibromes utérnis par les rayons %)
Presse méd Par 1996 xxxxx 1473

Roentgen therapy is thoroughly established as a method of treating uterine fibroids, but its results must be considered from two points of view viz, the relief of the symptoms and the disappearance of the tumo

Experience indicates that the disturbances due to the fibroid cease when the function of the ovaries is abolished. Thus N ray treatment is in reality a non-operative castration. Certain roentgenologists have succeeded in arresting the hemorrhages with doses not destructive to the ovary, but the constancy of the results and the duration of the cures remain to be determined.

When it becomes possible to relieve the symptoms, cause regression of the fibroid and at the same time preserve the ovarian function the value of X ray therapeusis will not longer be debatable. In the cases of young women in whom it was desirable to preserve genital function but myometomy was not feasible Fuffer attempted to protect the ovaries during the period of X ray treatment. The following method was found successful.

When the exploratory operation showed the impossibility of enucleation the author enclosed each ovary in a bivalved lend capsule baying on one side an opening to accommodate the ovarian pedicle The edges of the valves were perforated to allow their approximation by sutures. The lead cansule was 4 mm thick lined with aluminium to prevent secondary irradiation and couted with paraffin I ollowing the \ ray treatments the capsules were recovered at a second operation. This method has been employed in three cases

A patient 20 years old was found at operation to have a soft fibroid the size of the head of a newborn infant. As enucleation did not seem justifiable and the patient would not permit destructive operation a cap ule was placed over each ovary and fixed to

the lateral portion of the broad ligament

After several \ ray treatments the abdomen was again opened (six days after the first operation) and the capsules were removed. The ovaries appeared normal in every respect. Profuse metrorrhagia of two days duration followed Thirty cight days later the nationt menstruated for three days and a month later again menstruated normally. About this time it was found that the tumor had increased in size and hysterectomy was deemed advisable The tumor was found to be a my oma with a rapid growth There were no structural changes that could he a cribed to the irradiation. This case evidently represents a failure of \ ray thorapy

In a second case multiple fibroids which could not be enucleated were found. The same procedure was followed without incident. Normal menstruation was re established but agun the irradiction had no apparent effect on the size of the tumor

The third case was very similar to the second Normal menstruction was restored but there was

no reduction in the size of the tumor

The author believes that the method described is indicated in certain types of cases and might be extended to protect other sensitive organs such as the adrenals ALBIRT C DE GROAT M D

Cotte G and Bertrand P Three Cases of Implantation of the Tube into the Uterus (Tri cas dimplantation tubo ut(rine) I son hir 1926 XXIII 660

The authors report three cases in which it was necessary to resect a part of a faliopian tube on account of adhesion The tube was then am planted into the uterus. The cornu of the uterus having been curetted a needle threaded with cat gut was passed through the fundus of the uterus and out at the cornu and the catgut was used to pull the end of the tube down into the casity of the uterus. The tube was fixed in the uterus with two non perforating sutures

This operation has been objected to on the ground that the anastomosis may become obliterated secondarily and that it forms a point of least re sistance at which rupture may occur in pregnancy While implantation through an incision of the anterior wall might leave a scar that would pre dispose to rupture the authors do not believe that the slight traums of their operation could have any such result They admit the possibility of oblitera tion of the anistomosis but examination with horodol in their cases has shown the tube to be permeable in one case it was found perm able five months after the operation Some cases of preg nancy after this operation have been reported in the literature but pregnancy has not y t occurred in any of the authors cases

AUDREY C MORGUN MD

Hartmann J P The Treatment of Non Tubercu lous Adneral Affections (Die Behandlung nicht tuberkuloeser Idneyleiden) fets obst et evnee Scand 1926 v 254

This article reports upon 353 cases of non-tuberculous adneral affections treated during the period from 1917 to 19 3. A re examination was

made in all except might

Hartmann emphasizes that conservative treat ment such as the use of gonococcal vaccine protein therapy treatment with turpentine and diathermy should be tried in every case. However, he has not had much experience with these measures best results from conservative treatment (recovery in 63 per cent of the case) were obtained in acute conditions. In chronic cases conservative therapy resulted in recovery in only 45 9 per cent. In the acute cases the cure scemed to be independent of the extent of the lesion whereas in the chronic cases the extent of the lesion was a factor influencing 4234029T The patient's social circumstances were found to be of far less importance than was expected

Operative treatment was avoided as much as posible in the icute cases but was believed to be indicited in the chronic cases in which the condition had made the patient an invalid and recurrences were frequent. The patient's social circum tauces and age were taken into consideration. The various operative procedures are discuss decolpotomy removal of one tube removal of both tubes and one overy and total exterpation-and the technique for liberation of the adness and faure's hemisection

and drainage is described

The best results were obtained from radical treat ment Of the 353 patients 117 were treated surgical ly with three deaths. In the surgically treated cases recovery re ulted in 81 25 per cent where is in those treated con ervatively recovery resulted in only 52 S per cent

The author believes that conservative treatment

15 often overdone

Ahl trom F The Treatment of Non Tuberculous Adnexal Inflammations (Die Behandlung nicht tub rkulotser \dneventzuendungen) fefa obss el evnec Scind 1026 v 201

In a review of 1 \$52 eases of salpingitis treated at the Sabbatsberg Hospital in the period from 1910 to 1923 exclusive of cases of tuberculous alpingitis the author found that hie threatening conditions occurred in at least forty one (2 6 per cent) most of which (forty) were cases of septic suppingits. In more than half of these cases (twenty one) the condition was related to prignancy (abortion, usuilly induced, and in a few cases deliver; and extractive the country of the cases of the country of the cases of suppingitis, i, 4 per cent).

In the cases of gonorrhead salpingitis, life endangering conditions were rare. In 477 cases there was one death from ileus a mortality of 0.2 per cent and if secondarily infected cases are included, there was an additional death from septic peritonitis, making two fatalities in 400 cases a mortality of 0.4

per cent

The author discusses the septic types of salpingtus and the complications and conditions calling for operation in the period of fever. The primitry and end results in the rest of the cases—the mijority—in which conservitive treatment was possible and those in which operation was done later in an afebrile stage have been reported by Holtz in Acta gyneco logica Scandinavica Vol iv, Nos 3 and 4

The relatively high incidence of life endangering conditions should not be allowed to influence the indications for operation in the sense of the routinity performance of an operation in the acute stage, as has been proposed by certain gynecologists

In the acute cases the author has given expectant treatment first and has operated only upon the uppearance of a life threatening condition or in certain cases, to prevent the development of such a condition. When these rules were followed the total mortality was 2 per cent. If we evalude the lew cases of postpurtum salpingitis and the cases of abortion in which latter the mortality is highest and the condition is so severe that it usually ends fatally whatever the treatment, the mortality was only o 9 per cent.

The author is of the opinion that it is impossible to obtain better results by operation performed during the stage of fever According to most statistics the effect of such treatment is very much poorer as regards both the primary and the end

results

Aside from the rare cases of life threatening complications in gonorrheal salpingitis and the cases incorrectly diagnosed (appendictis extra uterine pregnancy twisted overnan tumor) it is chiefly the cases of septic salpingitis which call for operation

in the stage of fever

In the majority of the cases the process becomes willed off and in some of them a cure is obtained by conservative treatment. Sometimes an intraperationed or adnexal abscess is formed which can be incised without opening the abdominal eavity by colpotomy or laparotomy just above Poupart's ligament. Not infrequently it may be necessary to make several such incisions. Except in severe septie cases following abortion the prognosis under such treatment is good. After from one to six vears, 77 per cent of the patients were cured 6 per cent had only slight complaints, and 16 per cent had recur

rences Six per cent had become pregnant. The persistence of a fistula is rare

Even when it is necessary to open the abdominal civity operation is indicated in salpingitis with localized peritoritis under the following conditions

I When at the beginning of treatment, the symptoms of septic infection are so severe that the condition appears dangerous, as in cises of large pus pockets. In such crises the condition is usually a recurrence. As the extirpation of these pus pockets may be very difficult because of adbesions and triability of the pirametrum, it is best, especially when there are other unfavorable circumstances (such as adiposity cardiac weakness) to treat by incision and druinge rather than excision and to do this in two stages if possible.

2 When the local swellings increase or do not decrease and the symptoms of septic infection per sist or increase with deterioration of the general health weakening of the pulse, a high fever, and repeated chils and vomiting, and when the salpin gits is a non-puerperal infection. In such cases the condition is often a recurrence and operation must be undertaken to prevent the development of diffuse peritonities such as occurred suddenly in several of the cases reviewed, with or without rupture of the adnexal abscess. The operation should consist in extirpation of the indirex it the patient's condition will allow it otherwise, in

incision of the abscess and drainage

3 When the general condition deteriorates so that it is apparent that death will result from chronic infection if operation is not undertaken. In such cases the condition is often tuberculous with general ly a secondary infection. As Wetterdal has pointed out on the basis of the author's material (1cta gynecologica Scandinasica Vol 111 No 3), it is seldom that the fever persists after two months if tuberculosis is absent. When there is fever after this length of time operation should be performed even if the condition does not appear dangerous to life and the attempt should be made in spite of technical difficulties to extirpate the adnexa whether the condition is a septic infection or tuberculosis or both. since otherwise there is no prospect of cure. In addition, drainage should be established unless there are definite indications that the condition is tuberculosis without secondary infection

When there are symptoms of diffuse peritorities, when peritorical symptoms spread more or less quickly in the hypogastric region as fir is or even beyond the umbilicus and when the general coudition, the pulse and recurring chills and vomiting indicate that the peritorities is of a septic nature operation should be performed without delay. Also in peritorities following abortion or delivery the attempt must be made to operate if as is not infrequently the case, the condition appears hopeless on account of pyzemic symptoms. The operation must be restricted to laparotomy with executation of the pus and drainings such patients are unable to with stand extinpation of the adnexa

beand of the patient of the adirect

EXTERNAL GENITALIA

Westman A. The Results of the Treatment of Cancer Vaginæ at Radiumhemmet Stock holm Ada radiol 19 6 vii 632

The author gives an account of the radiological treatment of thenty one cases of cancer of the vagina. After a period of obervation of from six to twelve months five (23 8 per cent) of the patients were free from symptoms. Three of the cases were operable three were borderine cases and the rest were inoperable. Of twelve patients re examined after five years two (167 per cent) remained clinically cured. The condition of one of the latter was operable and that of the other inoperable.

MISCELLANEOUS

Westman A A Contribution to the Question of the Transit of the Ovirm from the Ovary to the Uterus in Rabbits Acta obst et gynee Scan 1 19 6 v Supp

The author first bnefly reviews the topographical anatomy of the internal genital organs in different minimals. Then follows an account of the various theories regarding the transit of the ovum from the ovary to the tube and those regarding its transit through the tube. Of the former the theory of the clinary currents and Sobotius theory of the importance of the bursa ovarica and the function of the instructed muscle of the address are cited in detail Of the latter particular reference is given to the activity of the ciliary cells and the persistantic con

tractions of the tubal musculature. By the abdomnal window method the author has carried out investigations on the tubes of rabbits. In his operative technique in these studies the part of the abdomen in which the internal gental organs are situated was shut off from the rest of the cavity by suturing the execum to the anterior and posterior walls. In this manner the intestines which normally cover the tube and overy were moved out of the way and an ob-

structed view of the organs was obtained Observations were made on animals during their sexually quiescent period as well as during cestrus and gestation During the quiescent period there are to be noted in the musculature of the meso tubarium fairly weak contractions occurring at relatively long intervals which draw the entire tube medially and caudally thereby rendering it more looped and the bursa ovarica narrower During these contractions the immobile ovary becomes more or less enclosed in the bursa. In the tuhe continuous contractions occur These pass over the ampulla for shorter or longer distances toward the uterus but in the looped isthmus they usually proceed only from one apex to the next one on the uterine side A contraction then follows in the next loop a continuous wave being thus set up in the direction of the uterus Contractions having an antiperistaltic course may also be observed occasionally The contractions are as a rule followed hy more or less obvious dilatations The intervals hetween the contractions in one and the same loop vary from five to thirty seconds

Duning cestrus fundamentally the same move ments of the tube and mesotubarum are observed. They differ however in intensity and rhythm. The mesotubanal movements are very powerful and cause considerable constriction of the bursa ovaries. The ligamentum ovarin proprium is the site of rhythmical contractions drawing the ovary out and in of the narrowed bursal opening. In addition the owary is rotated to and for around its long aris the displacements of the tube and ovary cause the various surfaces of the ovary to slide uninterruptedly along the finithrial apparatus. Contractions and distations in the tube are well marked the intervation of the contraction of the contraction of the conrections.

Muscular contractions of a similar type can be observed during the first twenty four hours after fertilization but then become reduced in intensity and rhythm. They are considerably weaker during gravidity than during the quiescent period.

The muscular activity of the tube and the figamentum latum is regulated by the ovary. The contractions are weak after castration and after destruction of the ovarial folicles by heat. They are strongest during cistrus when ripe follicles are are strongest. The corpus luteum has a retarding influence on the strength and rivitims of the contractions.

It is piopable that through alternate contractions and dilatations in the tube a powerful suction is set up. It has been demonstrated experimentally that this suction may effect a movement into the tube of ova present in the free abdominal civily which have been discharged from an ovary and fixed at some distance from the infundibulum. External migration of the ovum is also possible. The transit of the ovum seems to be considerably facilitated by the approximation of the infundibulum and the ovary during estrins and ovulation by the musicular activity of the ligamentum latum. In addition to its other uses the birst ovarica probably serves as a protective desire.

During astrus this is closed round the overy off and on and the mesotubarial contractions set up a suction in the bursa by which smaller particles present in the abdominal eavity can be brought close approximation to the abdominal ostium of the tube. However, it is not necessary for the bursa to be instact for the transit of the ovum as this may occur even after the bursa has been partially estimated.

The transit of the ovum through the tube is prob ably effected theful by muscular contractions. After follicular rupture these are very powerful but later become weaker. Theoretically this may explain the fact that the passage of the ovum is rapid through the abdominal part of the tube but greatly retarded through the uterine part. Jung P and Schirmer, A The Combination of the Pneumoperinoneal Rendgen Picture of the Fernile Pelvic Visceri with Hysterosal pingography (Ueber die Kombination des Pneumo peritonealen Roeni-enbildes der weiblichen Klein beckenorgane mit der Hysterosalpingographie) Acta radio 19 6 v. 395

In simple roentgenograms of the female pelvic organs made with the induction of pneumoperi toneum there are difficulties to interpretation, par ticularly with respect to the relationship of the pelvic organs to neighboring organs. If pneumo peritoneum is combined with injection into the uterus and tubes of an opaque substance such as lipiodol the interpretation of the roentgenograms agreatly facilitated, particularly in cases of adnexal

affections and tubal pregnancy and the differentiation of adhesions and disease conditions in neighboring organs

For testing the patency of the tubes, salpingo hysterography alone has a great advantage over simple tubal inflation in that it renders the tubes visible. It therefore reveals something of the nature and location of any obstruction that may be present and gives more complete information with regard to the shape and degree of development of the uterus.

In the diagnosis of intra uterane changes—tumors and other urregularities in the mucous membrane—these methods are excellent substitutes for the not harmless dilatation and palpation. In 150 cases the authors noted no unfavorable after effects

OBSTETRICS

PREGNANCY AND ITS COMPLICATIONS

De Nobele and Lams The Effect of the Roentgen Rays on the Evolution of Pregnancy and the Development of the letus (Action des rayons roentgen sur l'évolution de la grossisse et le dévelop pement du fœtus) Brit J Radiol 1926 **** 449

Various reports have been made of the birth of abnormal children after roentgen ray treatment of the mother during pregnancy. In order to study this effect of the Vrays the authors irradiated

guinea pigs and rats during pregnancy

They found that irradiation with an crythema dose generally killed the embryo. The more pene trating the rays the more marked the effect. The earlier in pregnancy the irradiation was given the surer it was to cause the death of the embryo If the embryo was not killed in the beginning of the irradiation its later development was abnormal There were no abortions but the evolution of the pregnancy was stopped and the embryos were ab sorbed The irradiation would probably have caused abortion if it had been given during the latter part of the pregnancy as in the experiments performed by Schinz on rabbits. In guinea pigs the irradiation seemed to produce ovarian cysts. The embryos that were carried to term showed lesions of the nervous and sensory systems such as hydrocephalus and microphthalmus which could not have been trans mitted by heredity AUDREY G MORGAN M D

Laffont and Méle The Transplacental Passage of Staphylococci in a Fatal Staphylococcus Infec tion Complicated by Meningitis (Passage du staphylocoque par voie placentaire au cours d'une staphylococciemie mortelle avec miningite) Bull Soc d'obst el de gynée de Lar 1921 XV 566

A woman 24 years of age was admitted to the hospital on April 28 10 6 for nervous disturbances complicating pregnancy The pregnancy bad been normal until April o when symptoms of premature labor began Opium was then administered

After four days the patient's family noticed that she had difficulty in speech and weakness in the right leg and arm. Two days before her admission to the hospital she developed facial paralysis and comiting occurred The temperature was 30 degrees C Examination at the time of the patient's ad mission revealed signs of meningitis. Lumbar puncture withdrew spinal fluid containing pus

Without waiting for a laboratory examination an injection of anti-meningococcus polyvalent serum was given. The laboratory report showed staphy

lococcus meningitis ,

On May 4 a blood culture was positive for the staphylococcus On May 6 the patient became comatose and delivered herself of a female child weighing 1 425 gm The child died balf an hour later On May 7 the patient died with bulbar paralysis

After the death of the child its heart was punc tured a thermocauterization of the cardiac wall being performed On culture of the blood extracted from this cavity a growth of staphylococcus was obtained This showed that the septicæmia and meningitis had been transmitted transplacentally from the mother to the child

SALVATORE DI PALMA M D

Benckert 11 A Case of Gravidity in a Uterine Diverticulum Icta obst et gyn e Scani 1926 ¥ 430

Benckert a case of pregnancy in a uterine diver ticulum occurred in a woman aged 33 years who had had a normal parturation in 1912. In 1917 she had had a uterine curettage on account of irregular and persistent bleeding of unknown etiology In 1920 another curettage was done for a mucous polypus

in the corous

After the last operation the patient menstrusted normally Her last period began January 1 1922 On Tebruary a some drops of blood were lost At the time of examination on February 8 the size of the uterus suggested a pregnancy in the seventh week

Five weeks later when the patient was seen again she had been having for two weeks a choco late colored discharge from the vagina and pain in the lower part of the abdomen Lyamination re verled besides the discharge a uterus which was moderately tender on palpation and as large as a uterus at the beginning of the third month of pregnancy

On the patient's admission to the hospital a dilatation and curettage was done. The scrapings nere extremely scanty and there was little evidence of an ovum Microscopic examination of the scrap ings showed them to consist of mucous membrane cells the stromatic cells of which had assumed a decidual character A diagnosis of incomplete

abortion was made

Just before the patient was to be discharged from the hospital an internal examination was made This revealed close to the right uterine angle a soft fluctuating tender and movable mass the size of a goose egg Laparotoms showed on the right ide at the tubal angle a thin walled sac about the size of an apple which was filled with fluid and contained a fetus o cm long. This sac communicated with the uterine cavity through a canal about the size of a pencil The excised sac was found to contain a typical placenta with decidua and ville

HARRY W. LINE M.D.

Brinkley A S The Management of Acute Ab dominal Complications During Pregnancy Virginia M Month 1926, his 59r

Thirmyomata with a twisted pedicle, ovarining the wind a twisted pedicle pyosalpux incirceration in the pelvis of the retroverted gravid uterus, infection and inflammation of Meckel's divertic ulum, pentonits, intestinal obstruction ruptured or unruptured extra uterine pregnancy acute uppendicitis, and pelvic ubscess complicating pregnancy demind immediate operation whereas acute cholecy situs and gastrer or duodenal ulcer should be treated pallicularly, if possible, until after the termination of the pregnancy

The conservative treatment of pyosalpung during pregnancy is unwise because labor will almost cer tainly rupture the sacs Albert W. Holman M.D.

LABOR AND ITS COMPLICATIONS

Trillat, P A Special Position of the Head of the Fetus in Breech Preventation (De l'evistence d'une attitude particuliere de la tête fortale dans les presentations de siege) Gynec et obst. 1926 ti. 2111.

According to the classical textbooks on obstetries the head of the fetus in breech presentation is in more or less marked fexion the chin rests on the sternum, and the two parteal eminences are at equal distances from the two acromion processes. The head is therefore in a condition of unstable equilibrium which causes cephalic ballottement. One of the best signs of the presence of the head in the fundus is the accontinuated throat groove

Several years ugo the author's attention was at tracted to a special position of the head in breech presentation, occurring especially in the incomplete form. This consists in rotation with forced inclination of the head. The child's hands rest on its fleved knees and the head is turned to one side the cheel and side of the head resting on the backs of the hands. The rotation and inclination vary in degree. In very marked cases one of the parietal eminences rests on the wall of the chest, the ear being in contact with the sternium. The top of the head looks forward.

Trillat first discovered this position when he was trying to extract a child presenting by the breech He had extracted the breech and brought down the arms but could not find the mouth in the usual position He discovered the ear in contact with the sternum and to find the mouth was obliged to pass his hand far around toward the extremity of the transverse diameter. He thought this was simply an isolated case until a colleague told him some months later of a similar one He then made a systematic study to determine the frequency of the position. In his material at a maternity hospital since May 1925, he has had thirty six breech pres entations, twelve of them complete and twenty four incomplete. In the twelve complete breech presentations, inclination and rotation of the head

occurred in only one (8 3 per cent), while in the twenty four incomplete breech presentations it occurred in eight. In two cases the inclination was very great, in three moderate, and in three slight Half of the mothers were primipare.

The position described presents difficulty in diag mosts because cephalic ballottement and the throat groove are absent it is impossible to practice version by external maneuvers, and the chin may catch on the symphysis — AUDREY G. MORGAN, M.D.

Zurite F Partial Symphysiotomy and the Symphysiotomy of Frank (La symphysiotomie par nelle et la symphysiotomie de Frank) Gynec et obst 19 0 vii 259

Fbe author cills attention to the fact that his subcutineous symphysiotomy is a very different procedure from the operation of Frank. It is more than a simple motification of an old technique and its indications and possibilities should be visualized from a different standpoint. The method of Frank is a blind open dangerous operation and seems to favor complications rather than to prevent them. The structures which oppose a rapid and complete separation of the pubic bones are sectioned blindly.

In the author's technique an intra articular section of the cartilage and of the inferior ligament is performed with a scalpel and separation of the bones is accomplished by forced abduction of the thighs. The operation is bloodless and safe demands only ordinary operative skill and may be donumder local or general anaesthesia.

Zarate's pelvitomy should not be considered a substitute for the low cæsarean section Pelvitomy is indicated only in pelvic dystocia in which the conjugata vera is more than 8 cm. When the conjugata vera is less than 8 cm, cæsarean section finds its application

The patient is placed in the dorsal position with the legs strongly abducted Before the operation the upper border of the symphysis is marked without displacing the skin surface. With the left index and middle finger in the vaging the fetal head is pushed upward and to one side A 45 cm scalpel is then introduced vertically just missing the upper border of the symphysis to enter the fibrocartilage of the symphysis. The fibrocartilage is sectioned from above downward the scalpel always being kept within the articulation. The sensation imparted by the cartilage which contrasts with the sensation produced by contact with the ligaments, serves as guide The section is made with a rotary motion to avoid enlarging the initial opening in the anterior ligament The pubic bones usually separate with a cracking sound and the separation can be increased as necessary by forced abduction made by the assistants supporting the legs If necessary, the superior ligament may be sectioned. A separation of two fingerbreadths may be expected, and it is possible to obtain one of three fingerbreadths Labor is ordinarily allowed to proceed normally The knees are handaged together for the first four days

The patient is then allowed to move about in bed and on the twelfth day she is allowed to get up ALBERT T DE GROUT M D

Lundquist B A Contribution to the Knowledge of the Etiology of Colporrhexis Acta obst et gince Scand 1926 v 408

The author reports the case of a 43 year old para in The patients first two labors had heen normal External examination at the beginning of her third labor at term revealed a verter presentation with the head engaged in the pelvic brim. The membranes ruptured three and a ball hours after the onset of labor. On external examination three hours after rupture of the membranes the head was found engaged just below the plane of the schmal spines with the antenior had been approximately as the schmal property of the property of the property of the plane of the schmal property of the plane of th

The pains soon cessed altogether the pulse rite rose to 140 and the fetal heart sounds cessed Peritoneal irritation was evident. In the abdomen it then became possible to feel two large swellings united in the middle the left one as large as a man head and the right one smaller. At the unbidieus a small fetril part could be palpated close under the abdominal wall. A diagnoss of rupture of the

uterus was made
At laparotomy the fetus was found lying free in
the abdomen The head remained fixed in the pelvic
tim. The uterus was found from from the anterior
vaginal forms from the site of the left uterine
active to the region just behind the right uterine
the first time of the left of the left uterine
to the left of the left uterine
to the left uterine
the left

In the vaginal tissues remaining on the uterus there were abscess like accumulations of leucocytes and in one or two areas evident demarcation zones of leucocytes. In the opinion of the pathologist the inflammatory process had heen present for two or three days before labor. ROLAND S. CROW M.D.

PUERPERIUM AND ITS COMPLICATIONS

Descarpentries On the Results Obtained with Hamolyzed Autogenous Blood in the Different Types of Puerperal Fever (Considerations sur les résultats obtenus par l'autos ung hémolysé dans les diver es modalités de la fievre puerpérale) Bull Soc d'obt et d' gwit de Par 1916 xa 569

The author reports several cases of puerperal fever treated with hæmolyzed autogenous blood The technique is not described but Descarpen tree states that it is quite different from the usual autogenous harmotherapy the latter having the effect of the inpection of a foreign protein while in his method there is never any shock and the effect is due to an unknown substance. He emphasizes that the red blood cells must not he killed before the produced the produced the injection of a foreign protein is produced.

The results obtained vary according to the organ

ism responsible for the infection

In three cases of puerperal fever due to strepto

occur teratment by the author's method resulted in a quick complete cure. In two cases due to staphylo cocci the results were excellent but were obtained less promptly. The result was good also in a case due to the colon bacillus death resulted. In a case due to the colon bacillus death resulted. In a case due apparently to a spirillum the use of autolyzed blood and rescueal treatment was followed by recovery.

The most serious type of purperal infection is that due to the colon bacillus

In the discussion of this report I AUCOT stated that in his opinion colon bacillus infection is the least serious type

Salvatore Di Palma M D

NEWBORN

Floris Birth Trauma and the Inte of Infants Fx tracted with Forceps (Il trauma da parlo ed il destino dei bambini estratti col forcipe) Rii stal di ginec 1976 IV 651

The author examined the infants extracted with forceps at his claim cduring the period from Jinustry 1 1910 to December 31 1924 and attempted to find out what became of those that were dischriged living and well. The immediate mortality was 150 pper cent. Cans reports the mortality as 12 45 per cent, and Schmarsow gives it as 9 2 per cent in the statistics of eighteen obstetricians collected by Winter it ranged from 6 9 to 27 7 per cent whereas in those of eight obstetricians collected by Wyder it ranged from 20 to 56 per cent. The author's statistics are based on a relatively small number of cases forceps extraction was done only on the structest indications.

In the author's cases the mortality from the first to the tenth day was 40 per cent. Of the children examined at periods ranging from one to fourteen pears after thirth 57 4 per cent showed more or less manifest lessons of the scalp or skull from the pressure of the blades of the loreeps. There was one call of convisions in the first year of life and one case of choreform movements and tie which begun drung the first year and still persisted in the 1sth year. Of the lessons found 74 or per cent were on the right side and 25 93 per cent on the left side.

AUDREY G MORGAN M D

GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

Rowntree L G Some Contributions to Our knowledge of Diseases of the kidney and Liver Canadian W 1ss J 10 6 XVI 1437

During the last two decades the author's personal observations and studies have led him to an altered conception of disease and to greater effort for in dividualization in treatment Because of the func tional deficiency evidenced in disease and its wide spread and constitutional nature he is no longer satisfied with morphological cellular, or even vis ceral conceptions of pathology Such a conception of disease must of necessity affect the therapeutic viewpoint and tend toward the adoption of treat ment for the prevention and correction of perverted function and of treatment based, when possible, on the response of the sick person to various functional and therapeutic tests

By the judicious repetition of tests of renal function the progress of disease may be followed accurately, the outcome predicted and the treat ment modified to meet changing conditions The information derived from the various tests will reveal whether or not the kidney is involved the nature of the disturbance, nitrogen or salt water metabolism, the occurrence of terminal insufficiency common to several pathological processes and the classification of cardiorenal vascular syndromes (Volhard and Tahr) The points of prognostic sig mificance revealed are the degree of renal insuffi ciency, the course of the disease and the probable outcome, especially in chronic disease

The points revealed with regard to treatment are its urgency, the indications as to its kind and de gree the extent of risk in surgical cases, and the indications for individualization

Changes in the composition of the blood are of great significance in the investigation of the organs of excretion The function of these organs is to keep the volume and the composition of the blood con stant Deviation from the constant usually indicates disease of the excretory organs Besides re vealing changes in nitrogenous metabolism studies of the blood chemistry yield important information relative to acidosis and alkalosis and disturbances of the acid base equilibrium of the body. The extent of anæmia may therefore be of great practical significance in relation to diagnosis and prognosis as well as to the treatment

Tew realize the importance of the ophthalmo scope and of the still more recent microscopic studies of the capillaries of the pail folds in cardio renal vascular disease The fundus of the eye yields more pathognomonic pictures of disease than any other area of the same size in the body

capillaries of the nail fold also exhibit pictures which give information regarding disease, especially the constitutional nature of penhritis and of its

complications

The prognosis in cardiorenal vascular disease is rendered much more accurate by the use of functional tests which indicate the extent of renal in sufficiency and the proximity of uramia By repeating the tests it is possible to follow the course of the disease The phenolsulphonephthalein, blood urca and creatinin tests have an important prog nostic significance in chronic disease

There is no routine treatment for nephritis In fact the most striling development in the treat ment is the tendency to forsake the routine for individual treatment based on the behavior of the patient to various functional and therapeutic tests

In the treatment of cedema there is a growing ap preciation of the influence of different ions on the hadration capacity of body tissues. In cases of anasarca the fluid intake, aside from that of food, must be reduced to from 200 to 300 c cm duly The introduction of a new organic mercury compound, merbaphen (novasurol) has created new interest in the management of oldema. In suitable cases when given intravenously in doses of 2 c cm at intervals of from three to five days it often causes unprecendented diuresis. The clinical results are excellent and toxic manifestations infrequent

The work of McIndoe and Counseller has em phasized the bilateral nature of the liver, the rc markable dilatation of the biliary tree, the hydro hepatosis resulting from obstruction of the common duct, and the madequacy of the portal vascular

system in cases of portal cirrhosis

Mann and Magath have succeeded in main taining life in dogs for a period of from thirty six to forty hours after removal of the liver In these animals hypoglycæmia develops with convulsions and death unless the blood sugar level is maintained by the administration of glucose This work is sig mificant in relation to hypogly cæmia in general and suggests the use of glucose in forms of toxamia associated with hepatic insufficiency In a de hepatized animal de amidization is remarkably dis turbed and the nitrogen and urea of the blood diminish simultaneously. On the other hand uric acid accumulates in the blood. There is also reten tion of scrum bilirubin with an indirect van den Bergh reaction and the development of jaundice

Important indicators of hepatic function are (i) the serum bilirubin (van den Bergh), (2) the bile index, (3) die retention, tetrachlorphthalein or bromsulphthalein, (4) the bile salts in the blood and urine (?), (5) the coagulation time of the blood (6) the fragility of the corpuscles and (7) bile and its products in the urine stools and duodenal contents

In dagnosis the tests reveal (1) whether or not the liver is deceased (2) whether or not there is jounded and its nature—whether it is obstructive or harmolytic—and whether the terminal picture is common to several pathological processes and (3) the classification of hepatic diseases. In the prognosis these tests and in determining the degree of hepatic insufficiency but this is of slight value in foretelling the course of the disease.

Daily contact with disease of the liver and group investigations of the problems presented demon strate the practical importance of these tests in diagnosis and treatment. Thus far however, their greatest service has been in the centering of interest

on diseases of the liver

Factors relating to prevention are the care of action infectious and chronic foet especially intra abdominal foet care relative to the use of alcoholic condiments chloroform arsenic phosphorus copper phenylhydrazin and tru and care in industry with phosphorus aeroplane dope and pierce acid

Specific factors relating to treatment are the use of constitutional specifies such as arsphenamin iodide mercury emotin quinine vermicides and of hepatic specifics such as water glucose and calcium Functional factors are the relief of biliary obstruction by transduodenal draininge the relief of ascites and portal obstruction by surgical treatment (the Falma Morrison operation splenectomy or paracentesis) or by medical treatment (merbaphen ammonium salts or restriction of salt and water) the relief of hæmulysis by spiencetomy the relief of congestion by digitalis diureties and restrictions of salt and water and protection from hamorrhage in faunthice by the use of calcium transfusions earbohydrates and water Symptomatic factors are the relief of pruritus by calomel emetin diathermy and sweating and the relief of gastro intestinal disturbances by diet and sedatives

I crhaps the most important advances in treat ment have been mide in the management of aseites in disease of the liver. Whereas formerly tripping was usually resorted to it is now upparent that in a considerable percentage of cases the aseites yields

to merbaphen

Hunt V C Hydronephrosis Surg Clin A 1m

1926 11 1153

Hydronephrosis is one of the most common lesions of the kidney. It is usually the result of an intermittent type of obstruction of the renal pelvis or the urcter. The obstruction may be either extrinsic or intrinsic.

The most common cause of extrastic obstruction is an accessory vessel or group of vessels to the lower pole obstructing the outflow of unnear it the unctient pelvic juncture. In most instances the accessory vessels include both artery, and vein and vary considerably in size. They may extend to the upper pole but are more frequently noticed at the lower.

pole because there they produce obstruction on recount of their relationship to the ureter and pelvis. I xperience, has shown that ligation and distingtion of the crossory vessels to the lower pole has been inadequate and that primary nephrectiony is more stusterory. Occasionally pelvic and aldominal tumors causing obstruction by encroaching on the ureter are encountered. In such cases of moderate hydronephrosis the symptoms will usually subside after removal of the obstruction.

Intrinsic obstruction is most often caused by a renal or urterial calculus. If the kidney becomes builty discussed or functionless nephreetomy or neipho ureferectomy to a point below the stone, should be carried out. It is difficult to determine the part placed by ureferral strictures in the production of hydronephrosis except when the stricture is situated it the ureferov-sencial juncture i ureferral stone may be secondarily responsible for the obstruction. It is possible that utered structure may be a factor in the so called indepathe type of the obstruction of the production of the obstruction of the production of the obstruction of the obstruction

Mlason T Cystle Midneys (Ueber Zystenniere) 1cta radial 1926 vii 65

The author discribes the pyelograms in two cases of polycystic degeneration of the kidney with refer ence to the findings at operation and autopsy

On a pyelogram of such a kulney the renal pelus is stuated more in the center of the renal shadow thin normally. The pelvis is not enlarged in relation to the size of the kutney on the contrrey, it is rither narrowed from side to side by the intrusion of the eysts. The infundibula are out of proportion and irregularly arranged. The uppermost part of the ureter is displaced medially. The thoremal position of the ureter is due to the enlargement of the kulney and the altered position of the renal pelvis to the cysts surrounding it on all side.

Around G and Morrissey J H Polycystle kidney tun Surg 1926 lxxxxv 846

The authors state that about 500 cases of polycaste kidney have been reported in the literature. They report six eases of their own. Three types are recognized.

a Tho e in which renal insufficiency appears and the patient quickly succumbs. These crees which are discovered at autopsy illustrate the fact that only an extraordinarily small amount of kidney bessue as necessary to sustain life.

2 Cases presenting symptoms of chronic nephritis
The diagnosis is difficult if the cysts remain small
3 Cases in which symptoms such as hematuria

3 Cases in which symptoms such as humaturn and elot colle direct attention to the unnuty tract Four of the cases reported in this article belonged to this group

According to the authors the value of pyclography as an aid to diagnosis cannot be overestimated. The

method must be used with crution, however, be cause of the possibility of reflex suppression. Im mediately after the examination the patient should he put to bed Heat should then be applied to both kidneys and a colonic irrigation given. The most efficient surgical treatment has been puncture or incision of the cysts. As a rule medical treatment is the method of choice

Several typical pyelograms are reproduced HARRY A FOWLER MD

Mercier O and Perard J A Case of Profuse Hæmaturia from Pyelonephritis Stopped by Ureteral Catheterization (Un cas dhemature abondante de pyelonephrite arretée par le cathéil risme urcteral) J durol med et chir 10 6 vui 304

A woman of 20 years entered the hospital March 3, 1906 on account of a profuse hæmaturia which began January 28 The hæmaturia was apparently total and began spontaneously with clots. There were no other symptoms. On May 10, 19-4, the patient bad bad a right nepbrectomy for tuberculosis with hematuria

Palpation of the kidney was negative Cystoscopy showed the bladder normal fresh blood was being discharged from the opening on the left ureter

As medical treatment had only a slight effect, catheterization of the left ureter was decided upon A sound was passed into the pelvis and a few cubic centimeters of 1 per cent silver nitrate solution were injected. The sound was then immediately withdrawn That evening the urine became normal in color Bacteriological examination showed pus containing many colon bacilli. The hematuria was stopped permanently and the patient left the hospital a few days later

This case demonstrates that a late hæmaturia after nephrectomy for tuberculosis does not neces sarrly mean a return of the tuberculosis at may be due as in this case to a colon bacillus infection It shows also the readiness with which such hæmaturias can be stopped by cathetenzation of the ureters This is the first treatment to be tried in such a case If it is successful it confirms the diagnosis

AUDREY G MORGAN M D

Matronola G Statistics on Renal Tuberculosis (Dati clinico-statistici sulla tubercolosi renale) 1rch ital di urol 1926 ili 129

Of 1.5 patients with renal tuherculosis who were treated at the Policlinic in Rome nine were between 10 and o verrs of age fifty five between 20 and 30, thirty-eight between 30 and 40 fifteen between 40 and 50 six between 50 and 60 and two between 60 and 70 Therefore 73 per cent were between the ages of 20 and 40 years Sixty seven were females Eighty nine (70 per cent) were operated upon Among the thirty six not operated upon, operation was contra indicated in twelve because the tuber culosis was bilateral and in six hy co existent pul monary tuherculosis. One patient died before op

eration from tuberculous meningitis and seventeen refused operation

In addition to the eighty nine clinic cases which were operated upon the author reviews fifteen from Matronola's private practice making a total of 104 Fourteen (13 per cent) of these patients died in the hospital This is not the operative mortality, how ever, for with the exception of the cases of three patients who died within a few days after the opera tion the deaths occurred after periods ranging from a month to a year The cause of death in these cases was renal insufficiency in Six infection in three, tuberculous meningitis in two, and an unknown cause in three

Of the ninety patients who were discharged with an operative cure it has been possible to follow up only fifty four Fifteen are dead Of these, five died after less than a year six after from one to three years one after five years one after six years. one after nine years and one after ten years. The majority of them therefore died within three years The cause of death so far as it could be ascertained was tuberculosis of the other kidney in nine, pulmonary tuberculosis in two, bone tuberculosis in one and an unknown cause in three The thirty nine patients who are still living were operated upon from one year to fourteen years ago Twenty seven have no symptoms now but twelve have bladder symptoms such as pollakium pyuna and more or less intense hæmaturia

The results have not been poor considering that renal tuberculosis is a disease which is fatal in the majority of cases. Most of the patients who are cured have no symptoms worth mentioning and are able to do their work. One man has been through the war and is still in active military service and enjoying good health. One woman who is now well and able to do her work has been married twice since the operation and has had two pregnancies ending in abortion Another woman wis subjected to an abdominal hysterectomy for fibroids ten years after the nephrectomy and hore the operation well In the patients under 50 years of age the mortality was between 33 and 44 per cent while in those be tween 50 and 60 years of age it rose to 83 per cent, showing that the disease becomes much more serious with advancing age AUDRLY G MORI AN M D

Soderfund G A Contribution on the Roentgen Diagnosis of Renal Tuberculosis (Beitrag zur Frage ueber die Roentgendiagnostik der Nieren tuberkulo e) Acta radiol 1026 vii 501

The author has reviewed the histories of 16cases of renal tuberculosis examined with the X rays in the period from 1912 to 1925 The findings of the examination were positive in fifty two and in twenty nine of these were of definite value in either the diagnosis or the treatment Soderlund divides these twenty nine cases into the following six

Group r Both ureters catheterized No tubercle bacilli found in the urine from the bladder or the

No definite tuberculous changes in the bladder 51x cases

Group 2 Catheterization of the ureter of the healthy kidney only. No tubercle bacille found in the urine from the bladder or the ureter definite tuberculous changes in the bladder Four

Group 3 Catheterization of the ureter on one side in three cases ous and tubercle bacilli found Catheterization on both sides in one case tubercle batili found on only one side tuberculosis also in other kidney shown by \ ray | Four cases

Group 4 Cystoscopy impossible because of stricture or narrowing of the urethra Six cases Croup & Catheterization of the arciers impossi

ble because of changes in the bladder Four cases Group 6 Enclosed renal tuberculosis at time of examination no communication of tuberculous process in kidney with the bladder I ive cases

The author describes the \ ray changes observed

in these fifty two cases

In no fewer than forty two cases shadows of culcification due to the tuberculous process up peared on the plate in areas corresponding to the kidneys and ureters and in thirty one of these the shadows were so characteristic as to permit a diar nosis of renal tuberculosis on the basis of the \ ray examination alone. In two cases the nature of the shadows was uncertain and in nine the appearance scemed more like that of lithiasis

In one of the remaining ten cases with positive I ray findings there were impressions in the renal shadow at the hilus and the lower pole. In another pyclography established the presence of a cavity In two cases cavity formations were mamfested by double contours of the renal shadow. In one case a thickened ureter was found. In two cases the examination revealed dilatation of the pelvis and in three cases the renal shadows on the affected side were enlarged

Marion Prelography in the Diagnosis of Tumors of the kidney (La pyclographie dans le diagnostie des tumeurs du rein) J d'urol méd et chir 1926

Marion has previously called attention to the mistakes that may be made in the diagnosis of tumors of the kidney from pyelography In this article he reports the case of a man who had repeated attacks of hæmatuna Aside from a slight decrease in the function of the left kadnes which was the one that was bleeding examination should nothing but pyuria without bacteria. The latter suggested tuberculosis but the harmorrhage was more comous than is usual in tuberculosis. A pyelogram showed no sign of tumor The author advised operation because he thought the condition was either tuberculosis or tumor However the patient feared operation and went to Lemies who concluded from pyelography and catheterization of the prefers that there was no urgent need of an operation

Subsequently the patient had another attack of hematura and consulted Abrami Abrami also advised surgery At operation Marion found a papilloma of the pelvis which it seemed should have shown in the pyelogram but did not. He therefore concludes that melography is of no value in the diagnosis of tumor in a hamorrhagic affection in a kidnes which is not increased in size. It may show no evidence of tumor when a tumor is present or it may show exidence of tumor when there is nothing but clots

In a case of hamaturia with clots not due to tuberculosis calculus hydronephrosis or tyclo nephrits an exploratory operation should be per formed without pyelography

In cases of large kidney without hematura pyclography will show whether the kidney is en larged from tumor or some other cause

TUBBLY C MORCAN M D

Marion Mistikes That May Be Made in the Performance of Nephrectomy on the Basis of Constant Alone (Des erreurs aurquelles peut entreuner le principe de la néphrectoure sue la constante) I d'ural mél et chr 1925 vui 3 7

This article reports two cases in which a double exploratory laparotomy was perform if on the basis of imbard's constant alone and the kidneys were found macroscopically normal Later exstoscopic examination in the first case showed nothing to endicate that the cystitis was tuberculous and functional examination of the kidneys showed them both to be normal. In the second case a later examination showed an ordinary bilateral pyclo nephritis and lesion of the epididymis suggesting tubecculous llowever there was nothing to in dicate that an operation on the kidnes would be

advisable Marion has previously warned against the per formance of kidney operations on the basis of the constant alone and these two cases are a further support of his argument. A nephrectomy based on the constant alone is justified only if the diseased side is definitely known and it is necessary to remove the diseased kidney even if the opposite kidney is not altogether normal Marion cites as an example a case of large punful and evidently pronephrotic kidnes and perinephritis on one side and a good constant Even if the opposite kidney is involved in such a case the pyonephrotic kidney must be removed if the opposite kidnes is still sufficient or death will result. In a case in which one kidney is known definitely to be tuberculous but there is noth ing special to indicate its removal except the tuber culoses and in which the constant shows that the other kidney is sufficient but there is nothing to prove that it is intact the kidney known to be tuberculous should not be removed as the other kidney may be affected as much or even more although it does not manifest its involvement so plainly upon clinical examination

SUPREY G MORGIN M D

BLADDER, URETHRA, AND PENIS

Campbell, M. F. Bladder Dysfunction Secondary to Nerve Lesions. Canadian M. Ass. J., 19.6 vvi. 1487

Disturbances of bladder function may occur as a reflex from peripheral sources of tritation or may be secondary to lesions of the central nervous system. In some crises, bladder irritation may be cured by removal of the cause of peripheral irritation. In crises of lesions of the cord and especially in tabes, the vesical symptoms are often the first to appear, and their proper treatment is very important in increasing the patient's comfort and prolonging his life even when the nerve lesion is incurable.

The author outlines his treatment of bladder symptoms which is applicable to all cases of cord lesion and particularly to tabes After the diagnosis is established, urotropin in combination with acid sodium phosphate is given in quantities sufficient to keep the urine alkaline-doses ranging from 10 to it gr three times a day to considerably larger amounts After the amount of residual urine has been determined, every attempt is made to prevent vesical distention and to allow the bladder to regain its tone. If the residual urine is less than a oz catheterization twice a week is enough, if it is under 5 oz catheterization must be done every two days, whereas if it is more than 5 oz , catheterization must be done every day If there is acute retention, catheterization every eight hours is necessary After the bladder is emptied it is washed out with an antiseptic solution either 1 5 000 acriffixine or silver nitrate of the same strength

While the infection of the bladder is being combated and the amount of residual urine reduced, re education of the bladder mechanism is attempted. The bladder is filled and the patient ordered to void He is then instructed to practice starting and stopping unnation several times during each voiding. Although this may be impossible at the first few trials, it is amazing how many patients acquire a

new control

Fhe underlying cause of the cord condition must, of course he treated, and in lues great care must be exercised that the treatment of the late stages is not too intensive as compared with that of early syphilis Henry L Synons WD

Hunt V C Bifocular Diverticulum of the Urinary Biadder Surg Clin A Am 19 6 vi 1153

Directicula of the bladder are now recognized as a not infrequent cause of urmary difficulty frequency, and retention. It is probable that in most instances the diverticula are not congenital in origin but result from mechanical obstruction at the neck of the bludder or of the urethra. They seldom occur in the female probably because the short female urethra is very seldom the site of structure or oh struction which are conditions of frequent occur rence in the male.

The most common site of the opening of the diverticulum is near one of the ureteral ordices, but only rarely does the ureteral ordices empty into or give way to the formation of a diverticulum. The ureter and the wall of the diverticulum are frequently in intimate relationship, but it is rarely necessary to ligate the ureter in order to extirpate the sac Diverticula are usually single but in about one third of the cases they have been multiple.

Surgical removal is indicated when they fail to empty with the bladder Geraghty, has described a transvesical method which is applicable to diver ticula situated in the dome or the lateral walls. The larger diverticula require extravesical extirpation on account of the inflammatory reaction in the periodiverticular tissues. The best results following extirpation of diverticula are obtained by removing the primary obstruction.

A case of multilocular diverticulum in a man aged 63 years is reported. The opening of the diverticulum was about 1 cm in diameter and situated about 1 year above the right ureteral orifice. The capacity of the diverticulum was twice the capicity of the

bladder

When the diverticulum was elevated for extra vesical extirpation a smaller diverticulum 5 cm in diameter was found communicating with it the smaller one was apparently a diverticulum of the lareer one

Hager B H Clinical Data on Alkaline Incrusted Cystlus J Urol 19 6 1v1 447

Hager reports the results of a further study of alkaline incrusted cystitis, reviews the literature, and gives an account of the cases seen in the past ten years at the Mayo Clinic He considers this disease established as a distinct entity. The causa tive organism is now named ' proteus ammoniæ' but was formerly placed with the salmonella The probable source of this organism is the intestinal tract Trauma or mild infection is necessary to prepare the field Clinically, the condition under discussion is characterized by chronicity, the symp toms of severe custitis and the passage of gritty, alkaline urine containing mucus, pus, and a dis proportionate amount of blood Frank hamaturia may occur In spite of the seventy of the local disease, the patient's general condition is usually excellent For diagnosis cystoscopy is invaluable, though generally the bladder is irritable and bleeds readily and its capacity is reduced. Anæsthesia may be necessary

Inspection reveals single or multiple areas covered with hard incrustations firmly embedded in and adherent to the mucosa. Removal of the incrustations exposes bleeding areas of granulation tissue which may be studied with fine concrements. These areas may be flat or papillomatous in appearance. Between the incrusted areas a grayish membrine is frequently found on the mucosa. It is composed of mucus cell debris and blood cells and is readily removed by irrigation.

Bladder neoplasm impregnated with urinary salts leucophikin and true vesical calculus must be considered in the differential diagnosis. A biopsy is necessity, when a neoplasm is strongly suspected Leucoplasha has a characteristic appearance. True calculus and incrusted cystitis may cocust.

The menger literature consists mainly of reports of isoluted cases. Interest has centered in sympto matic therapy including operative or endoscopic removal of incrustations local applications to the ulcerated areas irrigations and attempts to vicidify.

the bladder contents

At the Mayo Clinic fifty cases have been seen in the last ten years. Thirty four of the patients were females The average age of the males was 52 years and that of the females 35 years The latter age 18 significant as it falls within the child bearing period The urine was alkaline except in one case in which the disease wa limited to two small areas of the bladder neck. All except one of the women were married. The unmarried woman had an associated pyelonephritis. In the case of a boy of 17 years examination revealed a large vesical calculus and a mass of concrements filling the entire urethra Though the average duration of symptoms in the series was roughly three years cyclence is presented that incrusted cystitis may run a protracted course up to fifteen or twenty years. Infection in the upper urinary tract may coexist though technical difficulties frequently prevent its investigation. Of twenty six cases in which ureteral entheterization was carried out only five showed definite pyclo nephritis. The available evidence indicates that in women catheterization and trauma at parturition are contributing factors. In the male the greater incidence of the disease at the age of greatest fre quency of prostatic conditions suggests trauma as a factor

Six patients in the series were completely cured two died from influenza and twenty six were benefited (disappearance of the incrustations reduction of the symptoms). Five did not have sufficient treatment and the condition of seven wase un changed. In four caves the condition was made untely checked before the patient left the bospital. Two patients required suprapulse cystostomy for relief.

The treatment has varied greatly Bacillus bul garcus ombision at first in great favor gave a few good results Mann cases required in addition curette removal of the incrustations with acetic lead irrigations. It is possible that the bulgaricus tablets did not always vield hive cultures. Attempts at acultication of the urine by the administration of the usual drugs proved futtle. The best results were obtained by removal of the incrustation by curette with the application of strong sider attract curette with the application of strong sider attract matter and the progress (tworable only when prolonged treatment is possible. Now that the cubology of alkaline incrusted cystitis is understood there is hope of attaining a specific treatment.

Cecil H L Sarcoma of the Biadder Report of a Case in Which a Total Cystectomy Was Done J Urol 19 6 xv1 471

The author reports a case of sarcoma of the bladder in which a complete cystectomy was done and followed by recovery. He has been unable to find in the literature any similar case with recovery.

The patient's chief complaints were pain in the left kidney, and blood in the urine. His family history and personal history were negative. The uliness began July 1923—seen months before he consulted the author—with harmatura lasting three or four days. The urine then became clear. Several months later there was another attack of hæmatura which was more profuse than the first. Since that time blood had been constantly present in the urine in varying amounts. Two months previously the patient had a severe pain in the left kidney region which radiated down the course of the urter to the bladder. Three weeks previously he began to have pain in the bladder and prajon ourination.

Inviscal examination was negative except for a mass in the lower abdomen about 12 cm wide and extending about 7 cm above the symphysis. Rectal examination revealed in the region of the bladder a large mass which was soft bogzy and painful. The seminal visicles vasis differentia and prostate were pushed downward and backward and apparently not involved. Cvistoscopic examination was im possible because the bladder was complettly filled with blood. The phenolsulphonephthalein test was 65 per cent at the end of two hours. As the tumor was morable large, and soft a probable diagnosis of sarcoma of the bladder was made. X ray therapy was ach used.

After a month and a half of intensive irradiction the patient's condition became very much worse There was marked frequency urination occurring about every fifteen minutes and associated with considerable pain. This persisted night and day The patient had lost between 30 and 40 lbs The tumor had grown considerably but was still mov \ ray examination showed calcareous de posits on the bladder wall. As a palliative measure suprapulic cystostomy was done. The tumor which was blue in appearance and covered with large veins was found to occupy the entire anterolateral and most of the posterior bladder walls. The trigone and vesical orifice were free. There was considerable hæmorrhage following the operation Microscopic examination of the section removed showed sarcoma

The tumor continued to grow very rapidly and protruded through the wound Another series of extensive \ ray treatments was given and the tumor as fulgrured on six different occasions. In spite of all it continued to grow and protrude through the wound but at no time showed any tendency to rapid growth radical suggestions. The control of the property of the property

carried out with the left ureter. On July 28 a total cystectomy was done. The tissues which were in apposition to the tumor were excised with a wide margin. The bludder was freed by blunt dissection.

and removed just above the prostate

The huge The convalescence was rather stormy cavity left by the tumor required frequent irrigation with Dakin's solution Toward the end of his con valescence the patient had pain in the left kidney region and a Iew days later and on several other occasions passed fragments of stone One year after the operation he was in good health, of normal weight, and enjoying life The urine was caught by silver cups and collected in a rubber bag worn be tween the legs No local recurrence nor metastases could be made out One year and nine months after the removal of the bladder a large recurrence was found on the left side at the outer border of the rectus On May r, 1926 this tumor mass which was firmly adherent to the pubis was removed en tirely with the cautery. The nathological examina tion of the bladder showed the surface to be slightly lobulated No evidence of ulceration could be made out The ornices of the ureter and the trigone are not involved. The entire anterior, superior and left lateral walls are involved. Microscopically the tumor was made up of irregularly arranged cells which conformed to two rather different types Mitotic figures were present but not numerous The tumor was classed as a fibroblastic sarcoma

Pathologically sarcomata of the bladder vary from small polypoid masses to large papillomatous or smooth masses They are occasionally covered by normal mucous membrane Ulceration is rare The tumors occur more frequently in the very young and persons past middle age. Tumors having a pedicle generally have a very wide pedicle which involves the bladder wall and apparently arises from the submucosa or intermuscular substance growth of the tumor is characteristically very rapid Most authorities believe that these very malignant tumors metastasize rather late. They usually arise close to the vesical orifice or on the trigone and very commonly invade the ureters The microscopic picture varies considerably in different cases All of the growths are very vascular. Cecil has been unable to find mention of a case in which tumor cells were found lying within a blood vessel wall The most common type has been the round cell sarcoma The cause of death in these cases is the toxemia which results from the infection in the bladder and kidneys

Of the various symptoms, prain is the most prominent. It is usually associated with urination. Because of the relatively late occurrence of ulceration, harmatura is api to be a late symptom, but is usually marked. An early diagnosis is even more important in sarcoma than in epithelial tumor of the bladder as the former is much more malignant than the latter. The symptoms of the two conditions are very similar. Cystoscopic examination offers the most help in the diagnosis. If the cystoscopic examination alone is not sufficient, microscopic examination of a piece of tissue excised from the tumor will probably clear the diagnosis. Before any radical treatment is attempted roentgenograms of the skeletal system should be taken to rule out metastass.

Complete resection is the only method of treat ment which offers any hope The adjacent tissues should be removed with the tumor I ray and ra dium irradiation should be tried only in cases which are moperable. In the late cases which do not re pond to irradiation, total cystectomy is the only treatment. In the performance of cystectomy, the disposition of urine is a problem Theoretically the most ideal procedure is a nephrostomy but this is a very uncomfortable type of wound In the author's case, ureterotomy gave good results Of the various complications due to marked involvement of the surrounding tissues pyelonephritis is the most com mon In all but eight cases, the treatment of sar coma of the bladder has been unsuccessful. Of three patients subjected to total cystectomy two died

ALTON OCHSNER M D

Cassuto A Explosion in the Bladder in the Course of an Electrocoagulation (Fxplosion dans la vesse au cours d une electrocoagulation) J d urol med et chir 1026 xxii 63

The author was destroying a hypertrophied mid dle lobe of the prostate by electrocoagulation with a MacCarthy cysto urethroscope when a loud explosion suddenly occurred As the tumor was rather large and not very vascular he was using a current of 400 ma. When the accident happened he had closed the irrigating part of the apparatus, leaving about 150 c cm water in the bladder the explosion he carefully withdrew the cystoscope and injected a small amount of water. All of the water returned showing that there was no runture of the bladder. He therefore decided on expectant treatment instead of immediate operation signs of peritonitis of phlegmon of the space of Retzius developed There was only a little more hematuria than is normal in such operations, the bleeding continuing until the fifth day. A cystoscopic examination on the cighth day revealed a red and adematous mucous membrane with deep

The current used in electrocoagulition causes the formation of many small gas bubbles which can be seen clearly through the cystoscope. The author believes that these gas bubbles are a product of the disintegration of cells. The gissis evidently of a type that explodes readily when a certain volume of it accumulates in the bladder and is acted upon by a current of a certain intensity. In the use of endoscopes with continuous irrigation of the type employed by the author the gas bubbles are usually carried off by the return current of water. Cassuto attributes the accident in his case to the use of a current of 400 mm and the fact that he had cut off the irrigator leaving from 100 to 150 c cm of water in the bladder. To prevent such accidents be

recommends that not more than from 300 to 350 ma be used and that the irrigation be lept up con tinuously. He regards currents of 300 ma as very dangerous. The failure of the explosion to cause trupture of the bladder in his case was explained by the fact that there was only a small amount of water in the bladder and not much gas bad accumulated.

Three months after the accident the patient reported that he was in excellent condition and hisbladder emptied completely

AUDREY G MORGAN M D

Fedoroff S P Total Excision of the Bladder for Malignant Tumor (Sur la question Lablation totale de la ve sie dans les cas de tumeurs malignes) J d'urol méd et chir 1926 xwi 370

I cdoroff urges more radical treatment of malag nant tumors of the bladder Total extraon of the bladder is not a complicated procedure and if it is done in two stages is not especially dangerous in the first stage the ureters are transplanted prefer ably into the lower curvature of the sigmoid colon in the second stage performed two or three months

later the bladder excision is done

The author reports twelve cases all of which were neglected cases. Pyelitis had developed in eleven in two the pyelitis caused death. I no patients died before the second stage of the operation was performed. Two died of a generalized metastasis one of them after five years and the other after one year and two months. Two deaths were due to accidental causes not activistable for the four living patients two are in perfect health say years and two years respectively after the operation. The two others who were operated upon about a year ago have pyelitis.

Fedoroff maintains that even in cases of small carcinoma with few signs of infiltration total excision of the bladder offers surer relief from suffering and prolongation of life than any other operation

MICHIEL L MASON M D

Duboucher and Michon A Case of Traumatic Rupture of the Perincal Urethra Treated by Immediate Urethrorrhaphy (Un cas de rupture traumatique de l'uretre pêținacă Iraile par l'ure trorraphie immédiate) Bull et mêm Soc nat de chir 1930 în 1214

A young man sustained a rupture of the penneal urethern in a fall in which he landed astrade of a beam. The injurs was followed by severe pain a bloody urethral discharge retention of unne and swelbing of the penneum. It operation performed immediately suprapulue, cystostomy was followed by repair of the urethra. The latter was extremely difficult because of the continuous bleeding the crushed and finable condition of the tissues, and the difficulty in finding the perincal end of the urethra. It finally became necessary to re open the bladder incusion and employ retrograde exheterization. The

catheter was made to bridge the defect in the furethra and an end to end suture was done Healing took place by first intention and the

cystostomy closed at the end of forty days The end result was good

It is considered advisable to repair perincal lacerations of the urethra immediately. Simple cystosiomy is inadequate. While it is sufficient in the majority of ruptures of the membranous urethra involvement of the perincal portion re quires incision the evacuation of clots and end to end repair.

Verriotis T and Defrise A Inflammatory "coplasms of the Posterior Urethra in Chronic Gonorrhera (Sur Ics neoformations inflammatoires de l'urêtre, po térieur au cours de la blennorragie chronque) J d'urô méd et chir 1926 xiu 273 2010 marie de l'uro méd et chir 1926 xiu 273

Inflammatory changes in the posterior urethra especially those due to gonorrhea show two types of endoscopic picture. In the first there is an inflammatory erythema and in the second there are destructive processes causing enters or proliferating.

processes producing excrescences

There are two kinds of excrescences one due to dedmatous infiltration and the other due to hyper plasus of the epithelial cells and the suberpithelial connective tissue. The excrescences from cidema tous infiltration look like those of bullous eddema but are vascularized and less transparent. They are seen in the first stages of subscute infiammation or in the beginning of recurrences. The excrescences due to by perplasus are papilliform or polypoid and found almost anywhere in the posterior urethra and around the ornice of the bladder and more rarely since the profession of the bladder and more rarely smooth and almost transparent or slightly villous and sometimes covered with pseudo membranes.

The sessile hyperplastic masses are more fleshy in consistency generally pyriform and a graysh rose in color. They range in size from that of a milet seed to that of a prain of nee. It is sometimes difficult to establish a differentiation between the pyrifomatous extrestences and payallomats of non inflammatory origin even on microscopic examina too. The histological appearance of these different forms of extressences is described in detail. The different forms are manifestations of different stages of the inflammation the excresences from ordern and similar milet miletance of the mucous membrane and the papilliform excresences and the polypoid masses sessile and their pedunculated representing the successive stages of the inflammation.

As these inflammatory new growths are so clo elyrelated to the bildeder postate gland and seminal vesicles the symptoms may be due to irritation of Bladder genital or psychosevual symptoms may be the first to suggest the presence of such a chrome inflammation. The best treatment is the removal of the new growths with the cautery, but even when this is done they occasionally recur AUDREY G MORGAN, M.D.

Gautier, E. L. and Chevassu M. Four Different Forms of Urethral Polyps and Papillomata (Quatre formes differentes de polypes et de papil lomes uretraux) J durol med et chir 1026 xxu

Four kinds of napillomata seen on urethroscopy of the posterior urethra are described (1) the ordinary form with a single pedicle (2) a form with multiple pedicles, (3) a subacute form with many different elements each baving a pedicle and (4) an acute diffuse papillomatosis inviding the whole anterior urethra A case of each type is reported and the urethroscopic appearance of each is shown by a

colored plate

Chevassu, who reported Gautier's cases, called attention to the fact that they were probably all of inflammatory origin Case 3 presented interesting evidence of this, for passing backward from the glans to the membranous part of the urethra the papillomata gradually changed in character from the diffuse to the pedicled form. In Case 2 the papil lomata resembled bladder papillomata. Chevassu does not approve of the name "multiple pedicled selected by Gautier for though there were many papillomatous processes they seemed to rest on a common pedicle He suggests the term fringed papilloma ' Because of its resemblance to a bladder papilloma, he thinks the growth was probably a urethral graft from n bladder tumor but Gautier s report unfortunately does not tell anything regard ing the condition of the vesical mucous membrane

Ultraviolet rays had an excellent effect in one of these cases and the passage of Benique sounds in This substantiates the theory of their inflammatory origin, but it is impossible to say why a subacute or chronic inflammation sometimes causes proliferation of the urethral mucous mem brane It is certain, bowever, that such problera tions in a case of urethral infection cause the infection to persist indefinitely, and in any chronic urethral suppuration that does not yield to the ordinary treatments a urethroscopic examination should be made Gautier particularly likes Luys' apparatus but for most cases Chevassu prefers the apparatus of MacCarthy

AUDREL G MORGAN, M D

Kretschmer H L and Fister G M Piastic In duration of the Penis A Report of Sixteen Cases J Urol 19 6 TV1 497

The authors review the present day knowledge of plastic induration of the penis and briefly discuss the course pathology and differential diagnosis of the condition The prognosis is good in that the disease is usually self limited but poor in that it is not commonly cured. A few cases have been cured by fibrolysin injections A ray or radium irradiation, or operation but on the whole, treat

ment is not satisfactory. In a small percentage of the cases there is a tendency toward spontaneous recovery

Sixteen cases are reported and a hibliography is IOHN G CHEETHAM M D

GENITAL ORGANS

Lazarus J A Deen Roentgen Therapy in Disease of the Prostate Gland J Urol 19 7 xvn 37

Important factors producing urinary obstruction in adenoma of the prostate are congestion and redema of the mucous membrane. The author has found that \ ray irradiation reduces the congestion and relieves the urmary symptoms but does not reduce the size of the prostatic tumor decrease the amount of residual urine or sterilize an infected prostatic focus MAURICE MELTZER M D

Pugli W S Surgical Aspects of Chronic Prostati tis Wed J & Rec 1027 CXXV 10.

The author advocates the surgical treatment of chronic prostatitis by the various forms of urethro scopic manipulation. A definite decision as to the extent of the pathological change is impossible without a cysto wrethroscopic examination. A very frequent cause of persistent prostatitis is the presence of polypoid masses In order to obtain a cure such masses must be eradicated Occasionally prostatectomy is indicated in these cases

J SYDNEY RITTER M D

Bilateral Ligation of the Vas Goldstein A E Deferens in Prostatectomy J Urol 19 7 Wil

Goldstein advocates bilateral vasectomy in prostatectomy to reduce the complication of epididy mitis to the minimum Bilateral vasectomy is best performed in the scrotum A section measuring from 1/2 to 1 cm should be removed to prevent anastomosis It is always advisable to do this be fore draining the bladder. In a series of cases so treated epididymitis occurred in only 4 per cent No effect of the procedure on sexual power was noted MAURICE MELTZER M D

Marion G An Interveslcoprostatic Diaphraem After Prostatectomy (Le diaphragme intervé icoprostatique après la prostatectomie) J d'urol méd et chir 1926 xxii 257

Sometimes difficulty in urination develops again after a prostatectomy A sound cannot be passed The obstruction may be due to a diaphragm formed between the bladder and the bed of the prostate When a persurethral adenoma protrudes into the hladder the summit of the protrusion is covered by very thin hladder wall which is much more easily torn than the normal bladder wall back of the adenoma In the enucleation of the adenoma the hreak in the bladder wall should be made around the circumference of the adenoma for if it is made at the vertex of the tumor the flap covering the

protruding part will be left and may form a diaphragm Dysuria some months after a successful prostatectomy may be due to such a diaphragm or to an aberrant adenom overlooked it operation. An aberrant adenoma however can be palprited through the rectum and will allow the passage of a sound into the bladder. Another lesson that may simulate a diaphragm is a construction of the postenor part of the urethra ju t below the point at which the latter enters the h d of the prostate. In such a case the constriction is lower than when a diaphragm is present

The author has desired a cutting Bennque sound for the removal of interescroporstatic shappingms. During the introduction and withdrawal of the sound the blade is enclosed within it. After its introduction the blade is released by means of a wheel Marion has operated successfully with this instrument in four cases. In some cale it may be necessary to open the hladded for the resection.

AUDREY G MORGAN M D

Thomas B A and Birdsall J C Vasopuncture Versus Vasotomy Relative to Stricture Forma tion An Experimental Study on Dogs J Urol 10 6 vt 1520

Of eighteen vasotomies performed on dogs 55 per cent were followed by occlusion of the vas whereas of twenty vasopunctures only 5 per cent were followed by occlusion A 5 or 10 per cent solution of collargo seemed to be a safe antiseptic for use in the vas providing there was no extrav auton into the spermatic cord

As the traumatism to the vas and the subsequent regurgitation and infiltration of the collingol into the spermitic cord produced occlusion in over 50 per cent of the operations retieved it is evident that vasotomy with the use of a 5 or 10 per cost obtained occlusions should be performed with great caution According to the Department of the Section According to the preferable operations when the preferable operations are the preferable operations.

MISCELLANEOUS

Lowsley O S and Butterfield P M Urological Conditions Among Children J Urol 1926 VI 415

In an investigation of urological condition in children every effort was made to arrive at a diagnosis before resorting to cystoscopy. All treated by various antiseptics. For cystoscopic cammistion of children Butterfield has devised a double catheter. The authors between the condition of the c

Severe reactions such as chills fever, vomiting and urethral pain which are common in adults do not occur in children

not occur in childre

The history is taken carefully in all cases and a complete examination is much by a pediatrician A complete examination of the urine and an \ \text{ray} examination of the gentio urinary tract are made routinely. If the urine shows infection alkales are administered and the bladder is lavaged with acri flavine. If there is no response to this therapy untropine and acid sodium phosphate or heryl resortion list used. In some cases an autogenous vaccine is employed.

Local areathesus as indicated for older children while introus oude or eth) lene is used for younger children. The youngest male subjected to a cysto scopic examination in the authors chinic was ir months old. In the making of a pivelogram in the case of a child under general anisathesia, 5 c cm of a oper cent solution of solution poids is introduced.

The technique of sacral anysthesis does not differ from that used for the adult everept that the sacral hatus is located somewhat bigher than in the adult. Twenty five cubic centimeters of a freshly prepared it per cent solution of novocaine is injected into the canal through the first second third doubt and fifth sacral foramina according to the technique of Labat

In soc cases of urological symptoms in children the following diagnoses were made incontinence of urine (enuresis) in thirty seven undescended testical nelven stenois of the meatis in five hypospadias in two spina bifida in three con genital millocratiation of the posterior ureltrar is one epispadias in one pyogene renal infection in mine tuberculosis of the kidney in four in pathological conduction in seven vaginitis in four stricture of the ureter in three perinephritic abscess in two calculus in two acute nephritis in one lies in one

and venereal warts in one
Seventy of the patients were males. The average
age of the patients was 8 years. The youngest
natient was 11 months old and the oldest 16 years.

In the cases with enuresis all specimens of urine were found sterile. The patients were given an all kaline durients and a special diet the head of the hed was raised an afternoon nap was enforced and water was withheld after 5 pm. At 10 pm and a m the child was awakened for urination.

The children who did not respond to this therapy were given and preparations arroyin and glandular products. Instillation of various solutions irritating and non-irritating was done. In a few cases so e em of normal salt solution was injected into the sacral canal.

The results have been far from satisfactory. By the various procedures mentioned a cure has been obtained in only eight cases and improvement in seven. The authors believe that in every case which does not respond to treatment there is some under lying pathological condition and a careful endo scopie examination is necessary.

In discussing congenital anomalies the authors state that operative procedures should be avoided in the cases of children under 4 years of age as such

young children do not stand ether anasthesia well and as their cooperation cannot be expected local anzesthesia is impossible. A circumcision should be done in the first few weeks of life Meatotoms mas be carried out under local anasthesia induced with a per cent cocaine. This is a very valuable procedure when there is a steno-is at the external meatus which interferes with drainage. Hydroceles usually occur in persons who have worn a truss or who had a trauma to the scrotum or its contents or a pathological process in the epididymis Counter irritation will usually effect a cure. In cases in which an excision of the hydrocele sac is neces are the incluion is made as for herma. After evacuation of the sac the excess is cut away and the edges are approximated behind the testick

In undescended testicle the high position of the te-ticle is caused hy the shortness of the portion of the cord which contains the blood ves el due to fascial hands surrounding the blood vessel vas deferens and the vessels them elves are long enough A careful dissection should be made and these fascial bands separated from the vessels so that the testicle may be replaced in the scrotum and anchored there. The authors operated in this

manner succe-sfully in eleven cases

In the two cases of hypospadias a preliminary suprapulic cystostomy was done. A quadrilateral inci ion was made on the ventral surface of the pem- beginning just anterior to the misplaced meatus and extending hack to the hase of the penis A new elongated urethra was constructed around a catheter with the structures on the ventral surface of the penis. The glans penis was split entirely in twn parts the elongated urethra sutured at the apex of the glans penis and the wound clo-ed The catheter was removed as soon as the repair was complete The suprapulic fistula was Lept open for ten days

The authors report one case of spina hinda with urmary incontinence which they have operated upon succes fully. Through a suprapulac incision a triangular piece was excised from the dilated vesical orance and the wound sutured tightly over a

No 10 French catheter

Congenital malformation of the posterior urethra to attributed hy the authors to an anomaly of the wolfian and muellerian ducts. In the first of their two cases that of an infant aged 317 months antops. showed that the verumontanum instead of disap pearing hy spreading out on the floor continued down to the membranous urethra where it divided into two portions and attached itself intimately to the entire trethral circumference. A very small slit like opening was found on the floor of the urethra just to the left of the median line. The second cale was that of an infant aged 14 months who evidently had considerable pain on attempting to void The passage of a urethral bougie into the posterior urethra produced a tearing sensation After several dilatations with the bougie the patient was cured

In a case of complete epispadias with eparation of the symphysis in a 6 year-old hoy a finger could be in erted into the hladder without any resistance Through a suprapulic evitotomy a V shaped piece was re-ected from the neck of the hladder a No 10 catheter introduced and suction drainage applied Three months later the patient was able to hold his unne for two hours at a time and to tell when he walled to urinate. Four months after the first operation the urethra was repaired according to Young's technique Subsequently a small sinus developed on the dorsum of the penis hut this was repaired At the present time two years later the patient is perfectly well

Low-lev and Butterfield do not regard prelitions an entity. They believe that cases exhibiting local and systemic reactions have a pyelonephritis or Free drainage is essential in the pyoneohrosis treatment of all cases Therefore every patient with chronic pyuria should be subjected to a complete examination of the renal pelve the ureter the hladder and the urethra Of the authors series of nine patients with Lidney infection seven were females. Six left the clinic before any treatment could be instituted of the remaining three one was apparently cured by hexylresorcinol and later suffered a relapse and the two others with non hemolytic streptococcus infections were not henefited by al kali therapy the administration of urotropin and hexylresorcinol or vaccines. The authors experience with hexylresorcinol has been rather disappointing

While the authors have been able to find only forty cases of renal tuberculosis reported in the foreign literature and twelve in the American litera ture they have seen four cases. They believe that tuberculo-is of the Lidney is not such a rare con dition as was previou by thought. Many of the chronic pyurias in infants and children are probably caused by tuberculo is In two of their cases a secondars infection was found-a hacillus coli in fection in one and an infection hy the staphylococcus alhus in the other

Case r was that of a r, year-old arl who com plained of frequency of urination and marked pyuna A right nephrectomy resulted in a cure

Case 2 was that of a boy 14 years old who was admitted to the hospital with a diagnosis of acute appendicitis. His complaints were frequency of urmation dysuria and nocturia A right nephrectomy brought about a cure

Case a was that of a girl 11 years of age who gave a history of frequency of unnation pain in the left flank and marked pyuria Guinea pig inoculations were po itive for tuberculosis. A cure followed

removal of the left Lidney

Case 4 was that of a 6-vear-old girl whose chief complaints were frequent urination and pyuria Tubercle hacilli were found in the hladder urine This patient was lost sight of

In seven cases with a chief complaint of frequent and painful urination no pathological changes could be demonstrated Three cases of ureteral stricture. which occurred in guis having sterile urine were completely relieved by dilatation of the ureter Perinephritic abscess is a common complication of tuberculosis of the kindrey in children. In the authors two cases however, the condition followed an infection elsewhere in the body. Recovery was obtained in both after evacuation of the pure

According to the literature the incidence of urinary calculi in infants and children is not low I ain and colic hæmaturia pyuria frequency of urination dysuria nausea and comiting should lead to a thorough urological examination. In the case of a male infant ri months old who was examined by the authors the chief complaints were abdominal pain and frequency of urination Vesical calculi were found cystoscopically The X ray revealed calcult in the left kidney and ureter Following suprapubic removal of the bladder calcult an un eventful recovery resulted Unless symptoms are caused by the ealcult in the ureter Lousley and Butterfield believe the infant should be kept under observation until it is at least 4 years old. In the case of a boy 10 years of age there were two attacks of pain in the right flank and along the course of the right ureter accompanied by hæmaturia. The urine showed a large quantity of une acid but A ray examination was negative Permission for a cysto scopie examination was refused but the authors believe the case was one of uric acid calculus

A case of lues in a 12 year-old girl complaining of pain in the right kidney was cured by specific treat

ment

In conclusion the authors state that children with a history of urological symptoms persisting for some time should be given a complete urological examination.

Author Ochsers M.D.

Duvergey Dax and Ramarony Vaccination in Concirction Result in 202 Case of Antigono coccus Vaccination (Contribution à l'eude de la vaccination dans la bienterragie résultat de 20 cas de vaccination antigonococcique) J durol méd de bir 2020 XM 225

The authors have used the stock vaccine of the Pasteur Institute in 175 cases of gonorrhox and an autovaccine in twenty seven cases. In their dosage they followed the directions of the Pasteur Institute beginning with '4 ce m giving '4' ce m three days later and then injecting i c cm every other day liber did not give any local treatment unless there were complications. In the majority of cases they administered only one series of injections.

They divide their cases into those of acute irrethritis those of subacute urethritis those of

chronic unithritis and those of urethritis with local complications such as prostatitis epididymitis and cystitis, and those with general complications such as arthritis

They treated twenty nine cases of acute urethritis In four the condition was aggravated in eighteen it remained unchanged in five it was ameliorated and in two it was cured. In sixty three cases of subacute urethritis there was aggravation of the condition in five no change in twenty two improvement in twenty and a cure in sixteen Of the fifty eight cases of chronic urethritis treated with stock vaccine twenty six were unchanged improvement re sulted in fifteen and a cure was obtained in seven teen There were twenty five eases of complicated urethritis The eight cases of epididymitis among these did not seem to be affected at all In ten cases of chronic prostatitis there was considerable im provement. In four cases of rheumatism the pain stopped after one or two series of injections one case of arthritis of the knee with effusion and a tendency toward ankylosis was cured by three series of injections

The autovaccines were used only in eases with a duration of months or years. Of twenty seven cases of this type ten showed no change, nine were

benefited and eight were eured

Thirty four patients had a moderate fever after the injections. In a few cases it was necessary to stop the treatment on account of high fever and womiting. In some cases there was quite intense pain. In four absesses developed but there were no bacteria in the pus

While the method did not give any appreciable result in acute urethritis it resulted in a cure in 28 per cent of the subacute eases and 26 per cent of the chronic cases. The autovaccine gave a cure in 31 per cent and as it was used only in the oldest cases it seems to have been more effective than the stock

if sec

vaccine
Vaccination had no effect on epididymitis but hastened the curr of chronic prostatius when it was used in association with the usual treatment. Three cases of epididymitis and six cases of cystitis developed in the ourse of vaccine treatment without preceding lavage or instillation. A method which results in a cure in only 26 per cent of cases and does not prevent certain complications cannot be considered extraordinarily effective. However while it is insufficient alone it seems to be a valuable supplement to the local treatment of genorrhea as patients who received vaccine recovered more quick. I) later under irrigation freatment.

AUDREY G MORGAN M D

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Robertson D E Acute Hæmatogenous Osteo myelltis J Bone & Joint Surg 19, 1x 8

Rodet, in 1884, produced bone abscesses without trauma by the intravenous injection of staphylococ cus aureus Lexer found that large doses of an emulsion of living staphylococci injected intra venously into young rabbits caused death in twenty four hours, while smaller doses produced abscesses in the viscera, muscles, bones, and joints abscesses in the bones were most commonly situated in the broad extremity of the diaphyses The most common sites were the lower end of the femur and

the upper end of the tibia and humerus

Hobo cites Koch as demonstrating that the localization of infection from intravenous inoculation occurs most frequently in the epiphyses the meta physes, and the periosteal vascular region Dum mont produced typical osteomyelitis in young animals by the use of staphylococcus aureus from a furuncle Two hours after the injection the organ isms were found in veins of the metaphysis. He believed that they remained active and grew in the metaphysis and became the center of inflammation Hobo believes that there is a marked slowing of the blood stream in the metaphysis due to the very small branching of the arteries. The medulla, on the other hand, is very rich in blood channels. He believes that the medulla is much richer also in phagocytic elements than the metaphysis From these points the organisms emigrate into the metaphysis

The experimental production of osteomychtis seems possible only in young animals Lever states that older animals, like older persons develop arthritis in the presence of blood infection

In an attempt to verify some of the experimental work cited the author conducted a series of experi ments on young rabbits Three of these experiments are described

In one, 3 c cm of an emulsion of staphylococcus aureus made from a culture obtained from a case of acute osteomyelitis in a boy were injected into the vein of the ear Two hours after the inoculation, sections of the long bones showed a most active phagocytosis throughout the epiphysis and the medulla Very few cells containing organisms were found in the metaphysis

In another experiment, an animal treated as in the first experiment was killed two weeks after the inoculation and the femur then incubated for thirty six hours Staphylococci in large clusters were found throughout the bone and were especially numerous in the epiphyses and the medulla and the metaphy ses Large groups were found also in the periosteum

In the third experiment reported the animal was allowed to live for a week after the inoculation Necropsy then revealed abscesses in the viscera, muscles, joints and bones and sections of the long bones showed definite abscess formation in the epiphyses, metaphyses and periosteum. The me dulla while injected, showed no tissue reaction or abscesses

From these findings, the following conclusions are drawn

I Organisms introduced into the blood stream are deposited, among other places, in the long bones 2 In bones, there is a very active phagocytosis

except in the metaphysis The organisms produced inflammatory centers

in the metaphysis independent of trauma

4 It is impossible to produce a general infection of the medulla by the simple inoculation of organisms into the blood stream

Trauma may determine a local infection

6 Growing bones develop abscesses of the type of osteomyelitis Adult bones do so but rarely In the presence of a bacteriæmia in an adult, arthritis may develop

The injection enters the blood stream through broken or diseased mucous membrane or skin. It was demonstrated experimentally that when small doses of an organism were given the reaction was less

violent and localization occurred

From the experimental work that has been done it appears that trauma is not an essential factor in the production of the disease, but from the clinical standpoint there seems to be no doubt that trauma produces or is closely related to, the initial bone lesion The trauma is usually an injury to the epiphysis

Acute bæmatogenous osteomyelitis is seen most frequently in children between the ages of 10 and 15 years and is more common in boys than in girls There is usually a history of an injury to a joint or its region causing interference with function for a few hours or a day An examination for lesions of the skin and mucous membranes should be made

The first symptom of the bone infection is stiffness and pain at the site of the previous "sprain" Within twelve hours the pain becomes very severe and there is definite local tenderness over the metaphysis of the bone The temperature and pulse show a con siderable increase During the second twelve hours all of the symptoms are increased and, in addition, there is a local cedema which later becomes reddened Multiplicity of bone lesions occurs in over 75 per cent of the cases A diagnosis of acute hæmatogenous osteomyelitis cannot be based on the blood count since even in very severe cases the leucocyte count may be low In the first days the roentgenogram will not aid in the diagnosis

This disease must not be confused with acute rheumatic fever. Multiplicity of lesions is common in both conditions. In rheumatism the pain is less constant and the history is different.

The diagnosis of an infection of the upper epipby ses of the femur must be made by aspiration of the

hip joint

The treatment is obsously surgical Dramage of the lesson is indicated In early cases an incision is made down to the personsteum over the affected part and drills are passed into the metaphysis parallel with and close to the epiphyses. If one of these drills taps the inflammatory center it is essential to remove a small window from the cortex of the bone and leave the wound well open to establish free drumage. If the case is one that has gone on for drumage are the offended of the person of the control of the person of the

NORMAN C BULLOCK M D

Chiasserini A Chronie Abscess of Bone (I ascesso cronico delle ossa) Chir d organi di mosimento 1026 zi 1

Ahout 200 cases of chronic bone abscess have been reported. The author reports seven cases of his own In three of his cases the abscess was preceded by acute osteomyelitis in two by typhoid in one by pwemia and in one by an undetermined febrile disease.

The time from the primary disease to the operation for the abscess ranged from three to thirty one

\ earь

In Gross collection of 1,1 cases the ages of the patients ranged from 21 to 27 years at the time of operation but in 100 of them the symptoms had been noted twelve or more years before showing that the disease began in childhood or adolescence

There was a history of trauma in only one of the without's cases. In three the pus yielded stapby lococcus aureus and in one typhoid bacilli. In three it was sterile. In two of the cases reported in the hiterature colon bacilli were isolated.

Chronic bone abscess or Brodie's abscess is gen erally found in the metaphyseo epiphyseal region of the long bones particularly that of the tibia In five of the author's cases it was in the tibia. It generally begins in the metaphysis and extends toward the epiphysis rather than the diaphysis It involves the joint only rarely. The largest abscess in the author's cases was the size of a mandarin orange but Thomson reports a case in which the abscess contained 500 c cm of pus The abscess generally has a progenic limiting membrane. The bone for a short distance around it is usually in creased in density but the absence of sclerosis does not exclude an abscess of bone as some cases have been reported in which the surrounding bone was softened

The relationship between the primary febrile disease and the secondary absce s is manife ted by the localization of the latter or by the finding of the same bacteria in the two conditions first symptom of abscess is a vague intermittent rbeumatoid pain which increases in intensity The intermissions may last for months or years If an intermission follows immobilization or specific treat ment the patient may erroneously believe himself cured The pain is followed by local swelling which may also be intermittent The disease is generally afebrile but there may be attacks of fever The leucocyte count is generally normal. The skin over the abscess may be normal or slightly red local temperature is generally increased and there may be cedema. Palpation causes pain and may reveal a certain increase in the size of the bone There are generally no joint symptoms. In some eases there is a lengthening of a centimeter or more

Roentgen examination shows a local rarefaction with sis longest diameter in the direction of the long arts of the hone. The rarefaction is so intense as to suggest a cavity in the hone. Its outlines are clearly defined quite regular and in many cases surrounded by a thin line of dense hone. Generally the end of the bone in which the abscess is located is enlarged the diagnosis can generally be made from the

roentgen findings

The simplest treatment and the one which has been used in the majority of cases consists in open ing the abscess with a gouge emptying the pus removing any limiting membrane that may be pres ent and tamponing In order to shorten the drain age time some surgeons have broken down the lateral walls of the abscess to decrease its depth and laid pedunculated grafts of periosteum and skin over the inclined plane formed in this way shortens the time required for treatment even if the flaps retract but it sometimes causes consider able local deformity. When there is not much suppuration it may be possible to close the soft tissues without drainage. In such cases the abscess cavity is generally filled with Beck's or Mosetig's paste a mixture of hard paraffin and way or grafts of fat or muscle It is advisable to supplement the surgical treatment with the use of autogenous vaccines AUDREY C MORGAN M D

Stone C A Ossifying Hæmatoma J im M

Stone reports are cases of ossifying hematoma ille believed that these tumors were produced by a blow sustained during muscular relaxation which allowed the force of the blow to be delivered almost entirely against the hone. To test this theory he carried out a series of eyeriments on dogs. In these experiments a blow was struck, across the anterior surface of the femur on one side during the struggling of the animal before complete anæsthesia when the thigh muscles were tense and against the other femur after relaxation was complete. In no case was an ossified hierantoma produced.

Of the six cases reported, all followed a single traumi sustained during athletic competition A hematoma was formed and later grew smaller and ossified The tumors consisted of bone entirely overed with periosteum. In every case, ossification took place within two months. In one case there was a tumor in each femur, a fact suggesting an inherent tendency toward such formations.

FREDERICK A JOSTES M D

Goforth J L Giant Cell Tumor of Bone iran

The benign gant cell tumor, the most common of the central bone lessons, occurs characteristically in the epiph ses of the long bones of young adults. The condition progresses slowly. After from three to eighteen months the chief complaint is a disturbance of function. The roentgenograms show circum scribed, diffusely mottled, ratified areas produced by the bone absorption of the evpanding growth.

While we are familiar with the chinical roent genological pathological, and histological character istus of giant cell tumors our knowledge of their true nature, behavior, and course remains far from complete and our interpretation of their structure is quite unsatisfactory. Barrier regarded these tumors as local, chronic inflammatory processes while others consider them true neoplasms. The giant cells have been believed to be of bone, marrow foreign body or endotbehal origin, but some investigators consider them osteoclasts. Bloodgood, Codman, Meyerding, and others regard the giant cell tumor as benigh, but there is evidence that they may invade and destroy nearby tissues and in rare cases may even form metastases.

In the author s opinion, giant cell tumors should be classfied as true neoplasms. They constitute a senes. Those at the lower end of the scale possess relatively adult fibrous stromas and are essentially beingn. Under the stimulus of madequate or improper treatment they may recur locally, those at the upper end of the scale being especially hable to do so. Such recurrences are usually, more virulent than the primary growth. They are potentially malignant and as the result of repeated or improper treatment undergo malignant transformation and metastasize.

Daniel H. Elentman M.D.

Jepson P N Ischæmic Contracture 1nn 5un 1926 lxxxiv 785

Ischemic contracture follows an injury to the extremites, isually the upper extremity. Fivation by some method or by tight bandaging causes severe pressure on the injured structures which is followed in a short time by swelling, blueness of the extremity, parasitiesia and more or less pain. If the arm has been injured this is followed by severe contraction of the wist and fingers and finally by the claw hand deformity. There may be disturbances in sensation in areas supplied by the ulnar nerve and sometimes in the area supplied by the ulnar nerve and sometimes.

Volkmann believed that the muscular tissue is deprived of arterial blood and in consequence the muscle perishes from want of oxygen

The credit of calling attention to ischamic con tracture and establishing it as a true entity belongs to Leser who investigated the condition experimentally and gave a comprehensive and detailed account of his findings. Thomas, Bernbardt, Kohner von Frev, and others believed that the paralysis follows the use of an elustic bandage which results in flacing paralysis and contracture of the muscles due to injury to the nerves at the time of the accident or subsequently. Some writers have maintained that the contracture is due to the scar issue resulting from pressure sores but this is disproved by cases in which the typical deformity of the Volkmann Leser contraction has developed without pressure sores.

So far as Jepson was able to determine, the mechanism of ischemic contracture as seen in man has never before been reproduced in an animal. For this reason the experiments carried out at the Institute of Experimental Medicine of the Mayo Poundation are reported.

Dogs weighing approximately 12 kgm were used in all of the experiments. The lesion of ischemic paralysis as seen in man was reproduced in the animals by bandaging one extremity and preventing the return of the venous blood. In an attempt to prevent the development of the deformity it was found that if drainage was instituted within a few hours after the procedures which caused the lesion. contricture did not occur or was very slight. The results of these experiments seem to indicate that the contracture deformity is due to a combination of factors the most important of which are impair ment of the venous flow extravasation of blood and serum, and swelling of the tissues with consequent pressure on the blood vessels and nerves in the affected area

It can be understood that no one factor is responsi ble for the production of the typical deformity seen in a case of the Volkmann Leser ischæmic contrac ture It seems that the deformity in man is usually produced somewhat as follows First, there is a fracture in the region of the elbow joint or of the humerus or bones of the forearm an injury to the soft parts or a fracture of a clavicle Splints, casts, or bandages may or may not be applied When splints are used pressure sores often develop, usually over the flevor muscles and scar tissue may form But pressure sores are not required to bring about the deformity The tissues are bruised by the trau ma and extravasation of blood and serum follows The tension may be so great as to cause cyanosis of the entire forearm This intrinsic pressure causes local myositis and pressure on the nerves (usually the median and ulnar) and upon the blood vessels Flaccid paralysis develops followed by swelling in the muscles Almost immediately, contraction of the flexor muscles begins and the main en griffe deformity originally described by Volkmann results

As the process goes on owing to the diminished hlood supply the flexor muscles began to atrophy and the tendons become matted together. When the wrist is hyperflexed the fingers can be straightened if the intrinsic pressure is relieved within a short time after the formation of the hematoma the deformity may be corrected.

Adie W J and Bankart A S B Spastie Parul ysis Bril M J 1926 II 1208 1211

Addition resulting from diseases of the upper neurones of the pyramidal

system in children
Little s disease the most common form of cerchial
diplegia is characterized by a preponderance of
rigidity over paralysis. The essential anatomical
lesion is a primary degeneration of cerebral neu
rones. According to many the most important
etiological factor is injury to the heain at birth
Precipitate and protracted labors are associated
with cerebral injury. In examinations of the brans
of hundreds of children who died during the first
seven months of hife Schwartz of Frankfort found
gross pathological changes due to hirth injury in 6
per cent. Diplegia without gross macroscopic
change in the appearance of the brain is extremely

During the war Adie noted that gunshot wounds of the vertex produced a transitory clinical picture

of Little's disease

Familial diplegia is progressive until death, where

as the ordinary non familial type is not

The non familial type is helped very considerably by operative measures if there is no gross mental defect. Adie calls attention to the tendency to over estimate the severity of mental impairment in diplegic children. Athetood and choresiorm move ments when at all marked are contra indications to operative measures.

Adie discusses at length familial amaurotic idiocy, which is characterized by progressive mental impairment spastic paralysis and loss of vision, and a cherry red spot at the macula and ends in death before the second year of life. He discusses also various other more or less obscure conditions such as Merzhacher Pelizacus disease.

In speaking of decerebrate rigidity, be cites the work of Rademaker who proved that rigidity is absent so long as the red nucleus is intact. He dis misses the subject of the role played by the sympathetic in muscle tone with the statement that there is no evidence to substantiate this theory

BANKART states that spastic paralysis is not a disease but a physiological state which closely resembles if it is not identical with decerebrateingulity. The latter represents the removal of the inhibitory and controlling influence of the cerebral cortex from the parts of the central nervous systembelow. Under such circumstances, the latter enter into a state of abnormal reflex activity and the end result is exaggeration of the postural reflex paralysis of reciprocal innervation causing failure of the muscles on one side of a joint to relay when those on the opposite side contract, and loss or impairment of the power of voluntary movement

In Bankart's opinion, the best method for the relief of spastic contracture yet devised is Stoeffel's operation. Foerster's posterior root section and the operation of Royle and Hunter sympathetic rams sections, are inadequate.

FREDERICK A JOSTES M D

Kulenkampff D A Celluloid Protection for the Finger and a Contribution on the Treatment of Lacerated Extensor Tendons of the Fingers (Der Celluddingering zuglend ein Beitrag zur Behandlung des Abn ses der Fingerstrecksehne) Musenhe med II chnicken 1936 I vitu 148,

The author describes a method of treating separa tion of the extensor tendons of the fingers from the points of attachment which he has used with good

results on himself

With the use of a finger from a Mikulicz glove and an 8 per cent skin colored solution of celluloid be makes a hard cap for the finger in the position of citension. He covers an uninjured finger with salve inserts it in the glove finger, and then dips it several times in the celluloid solution. When on drying the glove finger hecomes stiff it is withdrawn and given another cost of celluloid on the inside. To keep it from shrinking it is then died on a Hegar dilator It is best to choose a glove finger of large size.

The cast so made can be washed and sterilized and provides complete fixation of the terminal phalanges

when the extensor tendons are torn off

The author describes also the preparation of a protective cast to be used after the loss of a finger nail or when a fissure has formed in the end of a finger Book (7)

Balensweig I Unusual Vertebral Injuries Report of Cases 1rch Surg 1927 xiv 29

In cases diagnosed as back strain a fracture or fracture dislocation of the spine is often present. A chinical examination made before the development of an anviety neurous and supplemented by good roentgenograms should establish the diagnosis in most cases.

Fractures of the spine are usually the result of indirect force and most commonly invoke a single vertebral body. They occur most frequently in the dorsal unhar segment extending from the eleventh dorsal to the third lumbar level. The first humbar vertebra is the one most often invoked. Fracture dislocations occur more frequently in the upper cervical and lower lumbar regions where the mobility is greatest

At the site of the lesson there is pain which is aggravated by movement of the spine a blow on the head or jumpung on the heels Pain is referred along the nerves from the level of the injury and there is weakness of the trunk or extremites.

Physical examination may reveal an awkward gait with the hody tilted a gibbus or flattening at the site of the lesion, lateral deviation of the spine, occasionally with rotation, restriction of motion, local tenderness, and muscular rigidity. The reflects are exaggerated or lost Muscular paralysis and localizing sensory, changes are usually present Neurological findings are frequently absent or lite in appearing.

Roent enograms in two projections should be

diagnosi

The author reports eighteen cases and illustrates them by fourteen plates These emphasize the value of convervative treatment, particularly in young persons, and the excellent results obtained by grafting or fusing the spine in selected cases.

W P BLOUNT, M D

Mathieu P The Treatment of the Sequelee of Coxalgia (Traitement des séquelles de la coxalgie)

Rev d'orthop 1906 xxxiit 581

Covalga may terminate in (1) complete ankylo sis, which is favorable if the limb is straight un favorable if it is in a vicious position (2) incomplete ankylosis with extensive destruction of bone and conservation of limited mobility (3) intracotyloid pseudarthrosis with very extensive mobility of the femur on the pelvis (4) pathological luxations of the femur which may end in ankyloses, particularly in subluxations or extra cotyloid pseudarthrosis and instability of the hip in complete luxation or (5) double covalgia in which a combination of lesions in the two hops causes a serious infirmity

In complete ankylosis in vicious position a high osteotomy of the femur gives excellent results. In incomplete ankylosis, osteotomy may cause recurrence in a vicious position unless a careful tech nique is used. This sequela can be avoided more surely by bringing about ankylosis of the hip by

arthrodesis

Ank)losis of the hip also remedies the complication of intracityloid pseudarthrosis with great mobility of the joint. Among the most important symptoms of this complication is pain of mechanical origin. The author prefers extra articular to intra articular arthrodesis and thinks it may be substituted with advantage for thelong continued wearing of an orthopedic appliance.

In extracotyloid pseudarthrosis with great mobil ity of the hip the decision as to the treatment in dicated is difficult. Fixation of the femur to the pelvis by an operation similar to arthrodesis is justified only by pain. In cases of fall hip which is not painful the surgical establishment of a good point of the femur scems to be the best solution of the problem.

In double covalgra, ankylosis in a straight position one side with mobility on the other is a commination more favorable functionally than a double straight ankylosis. However, there is a great deal of uncertainty in all of the operations proposed for attaining articular or para articular mobility in the covalgre him.

In the discussion of this report, Rendur reviewed the late results in six cases of intra articular arthroidess for coxalgia. In one, be obtained an ankylosis which appeared to he bony, in three, complete ankylosis without hony union, and in two, an in complete ankylosis with movement of about 5 degrees. He regards atypical operations as best. The object should be to coapt the largest intra articular and cytica articular surfaces of healthy

hone by the hest method possible LANCE has practiced osteotomy for vicious posi tion of the femur after covalgia in sixteen cases Five of the patients were children. In thirteen cases he performed a low subtrochantene osteotomy. in one case, the Lorenz Y shaped osteotomy, and in two cases the Schanz osteotomy with support on the ischium. None of the patients showed complete ankylosis under general anæsthesia. Lance stated that if osteotomy were performed only for complete ankylosis it would hardly ever be performed. He has seen eleven of his patients since the operation. none of them has shown a recurrence of the devia tion. He does not regard the persistence of limited mobility of the joint as a contra indication to osteotomy. He prefers the low osteotomy to the Y shaped ostcotomy of Lorenz a point of support on the pelvis is also good and there is less loss of length. He believes that the indications for extra

articular arthrodesis are very limited

Nove Josserann stated that some of the serious forms of incomplete ankylosis are due to persistence of the inflammation rather than to poor static conditions of the joint Formerly, resection was practised in these cases but arthrodesis is capable of curing some of them with less loss There are three conditions under which artificial consolidation of the covalgic hip is necessary (1) coxalgia healed with incomplete ankylosis and recurrent vicious attitude, (2) covalgia healed with insufficient sun port as a result of destruction of the head and the establishment of an intracotyloid pseudarthrosis or a pathological luvation and (3) torpid coxalgia which does not heal in spite of long continued treatment There are three methods of bringing about this consolidation intra articular arthrodesis, para articular arthrodesis, and osteotomy with a support

The results of grafting seem to be uncertain In Nove Josseand's opinion Matheu is a little sever in his judgment of intra articular arthrodesis when he maintains that it is dangerous and may reactivate the tuberculosis. Nove Josseand believes the first objection is not true and the second is true to some extent of all operations in tuberculosis Intra articular arthrodesis has the great advantage of evposing the lessons to view and making it possible to curette a focus of fungosities, remove a sequestrum, or cleanse a residual abscess cavity

That is why this operation seems to be indicated particularly in cases in which healing of the cox

algia is not certain

Para articular arthrodesis by a trochanteric bolt is very interesting but has not yet stood the test of

time It is questionable whether the contact of surfaces os mail as those of the trochanter and ibac bone will give a firm consolidation. This operation seems to be indicated most definitely in intra cotyloid pseudarthroses in which as a result of the disappearance of the head and a part of the neck the trochanter is almost in contact with the rim of the acetabulum and can be easily adapted to it. Each of the three methods has its indications in different anatomical forms of the sequelze of covalera.

TREVES agreed with Mathieu that adduction is the deviation most difficult to avoid Flerion is almost as frequent Inward rotation is less constant and less harmful Therefore during the entire evolution of the lesion freves immobilizes in extension abduction and slight inward rotation. He does not regard unkylosis as the ideal form of healing Restoration to normal with preservation of at least a certain degree of mobility of the joint with a correct position of the limb is being accomplished more and more frequently by heliotherapy combined with plaster immobilization. To obtain this result however ambulant apparatus must be worn for a long time With this treatment vicious positions are becoming more unusual. When they occur the best treatment in the great majority of cases is a high linear subtrochanteric osteotomy I reves does not approve of cunciform osteotomy with or without osteosynthesis these are usekss and increase shortening. He has abandoned oblique He believes that plaster im osteotomy also mobilization for from forty five to fifty days after operation is sufficient. He reserves ankylosing operations for cases with a protracted course and those in which high osteotomy followed by correction in abduction and slight inward rotation have

FAVERNIER stated that in his opinion Mathieu has too much distrust of intra articular operations. He has noted that this attitude is general on the part of Paris surgeons. Anly losis is no more difficult to obtain by an intra articular operation than by an extra articular operation.

ROSHER Called attention to the fact that not every coadigic hip that is ankylosed is defective function ally. To prevent progre sive adduction, it is generally necessary for the patient to wear an apparitus for a long time. Ankylosing operations by the extra articular method render the wearing an apparatus for a long time unnecessary. Rocher regards Mathieu's method as one of the best

DUPAnthinks that the amof treatment in coxalgia should not be ankylos s in all cases. Healing with perfect restoration of function has been brought about by heliotherapy and immobilizing plaster extension during the painful period. However it is very difficult to tell when a coxalgia is cured

Sorrel agreed in general with the conclusions of Mathieu but he thinks that ankylosis is not the only desirable termination of coxalgia at least not in children Quite frequently some movement of the hip persists after a being coxalgia which has been properly treated. This movement should be respected ankylosing operations are justifiable only in cases in which walking is difficult and these are tare. AUDREY G. MORCH. M.D.

Lasserre C and Mouchet A A Pseudo Cystie Glant Cell Tomor of the Femur In a Child 32 Months of Age Curettage Followed by Filling of the Castiy with an Osteoperfosteal Craft from the Mother Consolidation Late Result (Tomer p endo kystupu à myeloplates du fémur chez un enfant de trente-deur mois évidemen aux de comblement per grefions ortéop-nothques aux de comblement per grefions ortéop-nothques excellent de proposition de la comblement per grefions ortéop-nothques résultat florque). Puil et mêm See and de chur 1026 la 1850.

The child whose case is reported was first seen by Lasserte on November 8 1924. A month previously he had fallen and was unable to rise because of intense pain at the upper portion of the right high A physician applied a splint and advised a roomtgen examination. He interpreted the roomtgenogram as showing fracture and ostetus of the femur and unmobilized the limb in plaster.

Lasserre removed the plaster The child did not feel any pain when his hip was mobilized. The hip appeared normal and the fracture appeared to be consolidated but the movements of the hip joint were limited Roentgen examination showed a dappled clear area with its upper pole 2 cm below the joint cartilage and its lower pole 3 cm lower This was surrounded by a shell denser than the surrounding bone At its two thinnest points the bone cortex which constituted the shell was frac tured Lasserre made a diagnosis of bone evst with pathological fracture but was doubtful regarding it as a sister of the patient had tuberculosis of the calcaneum and he had recently had a case of tuber culous cast of the neck of the femur which was verified by operation

Considering the age of the patient and the fact that bone cysts sometimes disappear under immobilization he immobilized the leg When the apparatus was removed on February 8 7925 the upper end of the femur in the region of the greater trochanter was found to be swollen. There was an elongation of the right leg of 2 cm. Movements of the hip joint were possible and not painful. Consolidation seemed to have occurred.

On February 20 the infant who was extremely active climbed on a chair and fell sustaining a subtrochanteric fracture of the right femur. Roat gen examination the next day showed the picture of a cysi resembling that described before but larger. At operation the defect was filled with an osteopenostic algraft. The graft was taken from the mother's tibra as it did not seem possible to obtain enough bone from the tibia of a child so young. The histological picture was that of a giant cell tumor.

Roentgen examination made on May 14 1926 showed consolidation with an elongation of the limb of 21/2 cm The hip movements were normal The spotted appearance of the diaphysis had given place to bone condensation

Mouchet, who presented Lasserre's report to the Surgical Society, concluded from a study of the roentgenograms that the case was one of fibrous osteitis There were only a few groups of giant cells at one point Tibrous osteitis is rare at this age, as a rule it occurs after the sixth year par ticularly in the period of adolescence. The two diseases are closely related, and Mouchet regards it as probable that they are only two stages of the AUDREY G MORGAN M D same condition

Bernstein M A and Arens R A Diagnostic Inflation of the knee Joint A Clinical Radio logical Study Kadiology 10 6 vn 500

The authors discuss derangements of the knee joint which under ordinary circumstances present negative findings in the rountgenogram. Soft tissue structures do not readily cast a shadow unless they have undergone considerable change or some medium is introduced to outline them Liquids in jected into a joint for diagnostic purposes are too irritating, often leading to the formation of adhe sions, and are absorbed too slowly Gaseous substances are better Oxygen or carbon dioxide should be used The authors employ carbon dioude be cause it is very readily absorbed and produces very little irritation

The anatomy of the knee joint is reviewed with special reference to the spaces which can be inflated. The normal appearance of these spaces when they are inflated is shown by roentgenograms authors technique for the inflation is described in detail. The parts rendered visible by this method are the synovial membrane fat pads, and semilunar cartilages The conditions concerning which in formation may be obtained are tears of the liga mentous structures of the joint, displacements and tears of the cartilages, and chronic synovitis

The article includes roentgenograms of various lesions with legends describing the findings procedure has had no untoward results The authors have found it a valuable aid in the differential diagnosis of knee joint derangements and frequently have obtained evidence from it which justified arthrotomy ADOLPH HARTUNG M D

SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Lavalle R and Ombrédanne L The Trestment of All Forms of Tuberculous Osteo Arthritis by Bone Grafts (Traitement par les greffes osseuses de toutes les ostéo arthrites tuberculeuses) Bull et mêm Soc nat de chir 1926 lu 955

In 1923 Lavalle reported a method of bone grafting for the treatment of tuberculosis of the He has now extended the method to the treatment not only of tuberculosis of all bones and joints, but also of tuberculosis of the lungs. In

twenty one cases he has passed a bone graft through the lung immediately below a cavity. His method is hased on the theory that there is a venous con gestion at a tuberculous focus because the vessels are compressed, and while the arterioles can over come the pressure sufficiently to bring blood in, the veins cannot overcome it sufficiently to carry the blood away When a tuberculous epiphysis is sectioned a large quantity of black thick blood is discharged, this evertises pressure on the bone tissue The pressure to which the bone is subjected and the poor oxygenation resulting from dilatation of the veins furthers the progress of the tuberculosis The object of the described method is to restore circulatory rhy thm and carry off the excess of fluid Lavalle introduces two intra-osseous grafts, one above and one below the joint and connects them at the ends by a subcutaneous bone graft to be re moved later The grafts drain the dilated veins and relieve the pressure They carry off blood through the capillaries which rapidly penetrate them

In the treatment of Pott's disease a longitudinal subcutaneous graft is made running up and down the affected part of the spinal column Grafts are run obliquely inward and downward from this, penetrating the body of one vertebra obliquely and passing through the intervertebral disk and into the

body of the vertebra next below

Twenty clinical cases are reported, the reports being illustrated with photographs of the patients and roentgenograms of the joints treated Laville claims to cure all forms of tuberculous osteo arthritis whether with or without fistulæ and regard less of the age of the patient, within one month, by using the proper technique for each joint

Ombredanne, who presented this report to the Surgical Society, reported four cases of his own which were operated upon by Lavalle's method and several others which were operated upon by similar methods He found that the operation quickly re heves the pain brings about recalcification of the epiphysis and also of the metaphysis when the latter is traversed, and helps to restore joint function but he is inclined to think that Lavalle claims too much for it While the patients treated by Lavalle re covered with free movement, Ombredanne s patients recovered with ankylosis and his results were not obtained so quickly as those reported by Lavalle Ombredanne suggests the possibility of exciting an acute attack of tuberculosis by a central graft and of the interference of such a graft with the later growth of the bone in children However, he thinks the method a very important one and recommends further tests of it AUDREY G MORGAN M D

Johansson S On the Treatment of the Ischæmic Contraction of Muscles Acta chirurg Scand 1026 Itt 188

The author reports three advanced cases of ischæmie muscular contractions which were cured by operative liberation of all of the flexor muscles and plastic elongation of all of the flevor tendons

This excellent article on a very important subject should be widely read Johansson discusses various methods of treatment none of which has given such uniformly good results as the one herein described

Pieri G Plastic Reconstruction of the Thumb (Contributo alla ricostruzione del pollice) Chir d oreans de morimento 1926 xi 89

Pieri reports three cases of traumatic lesions of the thumb and one of congenital malformation of the hand. In the first three he made a curvilinear incision beginning at the tubercle of the scaphoid and passing around the thenar eminence Another incision was begun at the angle between the base of the thumb and the adjacent metacarpal and directed toward the apex of the second metacarpal running around it in a racket shape to remove the exuberant skin A third incision was made on the back of the hand running parallel with the first metacarpal and at a little distance from it and continuing distally with the first incision. These three incisions converged toward the base of the thumb at the angle of the first interdigital space

The first metacarpal was then disarticulated and the adductor pollicis resected. This did no harm as the prehensile function of the thumb depends almost wholly upon the opponens and the flevors The skin flap from the thenar eminence was wrapped around the first metacarpal which was used as the basal phalanx of the new thumb and the skin flap from the dorsal surface of the first interdigital space was brought around to the thumb and used to cover the third metacarpal The anatomical and func tional results of the operations were excellent. The new thumb had a good prehensile power even in the case in which all of the fingers had been lost

small objects could be held In the case of congenital malformation all of the fingers and the thumb were fused together operation the thumb bone was separated from the others by a longitudinal incision through the soft parts and pulled away from the other fingers The two proximal phalanges of the second finger and the distal half of the second metacarpal were removed A skin flan was cut on the back of the hand between the first and second fingers dissected free from the underlying tissues brought around to cover the interdigital space between the thumb and the rest of the hand and fixed with interrupted salk sutures The margins of the gap left by the removal of the skin flap were sutured together. This was easy on account of the removal of the bones of the second finger The thumb has good opposition and prehension AUDREY G MORGAN M D

Dega Plastic Operation on the Thumb by Wierze jewski's Method and Its Late Results (La lastique du pouce d'après la méthode de Wierze jewski et ses résultats éloignés) Rev d'orthop 1026 XXXIII 407

Wierzekewski has been performing his plastic operation on the thumb since 1916 A new thumb is formed from the first metacarpal of the same hand Four illustrative cases are reported briefly The results are permanent and the patient has excellent use of his hand

One of the cases reported was that of an organist and violinist Since the operation this patient has been able to carry on his work. No trophoneurotic ulcers develop as they frequently do after the transplantation of toes or free grafts. The technique is simple and the method is less mutilating than others as neither the toe finger, or graft is sacrificed and there is less risk of failure than in transplanta AUDREY G MORGAN It D

FRACTURES AND DISLOCATIONS

The Treatment of Compound Frae tures (Du trastement des fractures compliquées) bull et mem Soc nat de chir 10 6 lu 110.

In the opinion of the author primary suture at the level of a compound fracture should not be done Statistics cited against this view are mis leading since usually the type of fracture is not stated and many fractures classed as compound are not compound Moreover the stati ties do not give the number of amputations performed for fracture during the same period and this must be taken into consideration. If the wound is left open osteosyn thesis need not be rejected as too dangerous and may be indicated when for instance the fracture is irreducible or cannot be maintained in reduction of when there is an interposed fragment or the fracture is juxta articular. However this is not the method of aborce as it may lead to delayed union pseudarthrosis exuberant callus or fistulæ

The best treatment is a three stage procedure (1) cleansing (2) cutaneous suture and (3) osteosyn thesis or grafting. This method also has several disadvantages. In the leg retraction of the skin may render suture impossible after several days Autoplasts may be done or a dermo epidermic graft applied to save time or the wound may be allowed to heal by secondary cicatrization. This may prevent osteosynthesis but the latter often proves to he unnecessary

Between 1010 and 102, the author treated twents one compound fractures in three of which primary osteosynthesis was done because of ir reducibility In only four was secondary osteosyn thesis necessary There were no deaths. The results in cases treated routinely by primary osteosynthesis are far less satisfactory

LEO M ZIMMERMAN M D

Rieger The Degree of Working Capacity After Fractures (Ueber den Grad der wiedererlangten Arbeitsfachielten nach I rakturen) treh f orthop u Unfall Char 19 6 TXIS 200

The author reviewed 1 400 accident cases to deter mine the capacity for work after frictures The

cases were studied with regard to the patient's age the duration of incapacity and the nature of the injury In general, the results are considered "not especially good". Return to normal was seldom prompt enough to prevent the necessity for financial and. The quickest restoration occurred in cases of fractures of the radius odd rish. The majority of the patients recovered their previous working capacity, but this usually required some time during which manicial aid was required. All tended to evaggerate their injury. Mo tof them were agricultural workers.

HACKLYNBOGIC (2)

ORTHOPEDICS IN GENERAL

Lowman C L. The Underwater Gymnasium as an Adjunct to Orthopesic Surgers. J. Bone & Join Surg. 19.7 ix 119

The undernater gymnasum is employed hy Lowman in the treatment of various types of orthopedic conditions such as old and recot poliomyelitis cerebral palsy congenital hip conditions, postural defects, etc. A pool 3 ft. deep containing 2^t₂ It of water is divided into two sections, one for salt water and the other for fresh water, the tem perature of which ranges between 88 and 91 degrees

It The children are placed on various types of apparatus such is submerged plinths, English surfloats etc and instructed in active and passive exercises. They are supported in the water also by the physiotherapy workers and given exercises for mucle re-education.

In ten cases of recent polomy clitis this method was followed by more rapid and sytisfactory improvement than any method used previously. It should be used, not as a substitute for muscle trying in the gy miansium or in bed hut as an adjunct to the latter. In old poliomy chitis the pool treatment tends to tone up the body and assists in gymnasium work. The psychological effect is very marked as the patients feel they are participating in active sport. The treatment of congenital and other hip conditions is greatly facilitated by the pool method.

SURGERY OF THE BLOOD AND LYMPH SYSTEMS

BLOOD VESSELS

Winslow N Extracranial Aneurism of the Internal Carotid Artery History and Analysis of the Cases Registered up to August 1 1925 Arch Sure to 6 xm 680.

Winslow reviews to 6 cases of extractanual aneutrium of the internal carotic intern—forty two spontaneous eighteen erosive teentiv air traumatic interest arternovenous and one unclassified. The condition has sometimes been mistaken for perition sillar absects and lancing has been done with a consequent fiatal hemorrhage. Prompt diagnosis and correct surgical treatment will sive life in most cases but in the past many patients have died under dilatory or micorrect treatment.

Of the too cases reviewed seventy were operated upon thirty five were treated conservatively and one was found at autopsy. In the seventy eases treated surgequelly a cure resulted in 65 pt extent improvement in 280 per cent no improvement in 143 per cent and death in 30 per cent. In the thirty five treated conservatively a cure resulted in 8 5 per cent no improvement in 1714 per cent and death in 7143 per cent in 286 per cent the outcome is uncertain.

Operation is the surest and quickest method of

relieving the condition permanently As a rule the symptoms are frank On inspection of the throat there is seen a bulging in the lateral tharvageal wall. The swelling may be circum scribed or diffuse To the touch it is soft and elastic and pulsates throughout its entire extent 1 xternally there may be no evidence of the con dition of there may be bogginess and a distinct lump behind the angle of the jaw With the stetho scope placed over the swelling a bruit may be heard Both murmur and pulsation cease when the common carotid artery is compressed against the vertebral column The symptoms include dys phagia dysproca hourseness deviation of the tongue toward the affected side a roaring in the ears mild cerebral symptoms and hemorania Diagnostic puncture is warranted only if prompt carotid ligation can be done in case of rupture through the path of the needle The treatment of choice is ligation of the internal

carotid artery proumal to the ancurism or ligation of both the common and external arteries and any branches of the latter arising between the site of the ligation and the bifurcation. Ancurismorthaphy may be resorted to in a few cases in which the sac is accessible.

Syphilis is not important in the etiology of the condition only two cases cured with specific therapy have been reported Because of the good results obtained by ligation medical or conservative treatment is not justifiable Before the circulation in the internal circular spermannily arrested the common carotid artery bould be temporarily octuded under local anax thesa Usually a defective cerebral circulation will be promptly manifested by vertigo or fainness. When this occurs the ligature should be removed without delay.

Of the forty two spontaneous aneurisms in the cases reviewed thirty occurred in women Aneurism elsewhere is far more of carotid aneurism treated by Langenbuch in 1802 an attempt was made to nar row the lumen of the vessel with a silk ligiture so as to lessen but not interrupt the flow of blood Following this procedure the pain and pulsation were less marked

Of the eighteen aneurisms of the crossive type in the cases reviewed twelve occurred in males. In this group there were several catastrophes in the treatment. The prompt recognition of facual aneurism consecutive to scarlet lever indigensa cervical adentits septic for throat and inflam matory tonsillar diserse is of the utmost importance

Of the twenty seven triumatic incurisms in the cases reviewed twenty five occurred in males

Of the nueteen arterior enous aneurisms eighteen occurred in males and eighteen were of traumatic origin. The treatment of this type includes carotid and jugular ligation and if possible, extirpation of the say.

In conclusion the author calls attention to the fact that ametism of the internal carotia driers in its cervical portion is not so rare as was once thought and is not a benign lesson. Operation results in a fair percentage of cures whereas conservative or internal treatment is almost invitrible followed by death. While a spontaneous cure is possible it is visible and the state of the visible and the state of the visible and the state of the visibility of the provided any approach as a possible anieurism until it is proved to be some other condition.

The article includes the clinical observations made in all of the cases and a detailed report of the more important cases. It is supplemented by a very lull bibliography

JAM'S B Brows M D

BLOOD, TRANSFUSION

Nather K Pernicious Anæmia and Blood Trans fusion (Perniciose Anæmie und Bluttransfu ion) Arch f klin Chir 1926 ctl 14

The author reports upon the experiences of the von Eiselsberg Clinic with transfusion of blood in twenty nine cases of permicious anymia

To determine the compatibility of the blood of the donor and recipient, the Landsteiner Moss test was used. For the transfusion, in addition to the Ochlecker apparatus, the method of Percy was used as a rule as it requires less preparation than other methods and makes it possible to keep the donor and recipient in different rooms. Although some surgeons warn against them transfusions given at very short intervals were proved to be harmless Since in one case another transfusion given after an interval of several months was followed by a severe anaphylactic reaction, it is recommended that in such cases the patient be rendered immune to anaphylaxis before the transfusion is repeated. An attempt was made to accomplish this by an intravenous injection of about 4 c cm of the donor's blood on the day before the transfusion was given The amount of blood transfused each time was

of transfusions was nine
All of the patients had been sick for a long time
and had been treated medically. Of six patients who
were almost moribund when the transfusions were
given, four died after a few days. Of the two who
survived, one, who now has had a remission of
eleven months, shows that in no stage of pernicious
anisma is the omission of blood transfusion jus
tifiable. In the case of the others who came to
transfusion in the most varying stages of the discase, transfusions were done in sense (a sense of
from three to six transfusions at intervals ranging
from one to three weeks). Remissions of most
varying duration (from one to inneteen months)
resulted. About ball of the patients are still alive

between 300 and 600 c cm, and the greatest number

An observation of interest was the fact that a series of patients who were strikingly benefited by the first series of transfusions did not show a favor able result when the transfusion was repeated for recurrence of the condition. The fact that of twenty nine patients some of whom were very such wenty showed an immediate favorable result after

transfusion, demonstrates that blood transfusion is of value for the prolongation of life and the rapid production of a remission Vollhardt (Z)

Carlton C II Blood Transfusion in Children's Practice Janeet 1926 ccvi 850

This article is based on some 600 transfusions done in 7925 in the Hospital for Sick Children, Toronto The methods are described in detail Reactions are rare and can be remedied by proper treatment. The summary is as follows

I The transfusion of whole blood by means of glass syringes is an easy and successful operation which may be performed even on the newly born 2 As a combatant of shock and a corrector of hemorrhage it is a valuable routine adjunct to many operations performed on children

3 It guards the newly born child against the dangers of prematurity and hamorrhage

4 It may save the life of a child suffering from burns

5 It is an aid to the treatment of metabolic tovernias of infancy Marcus II Hobart M D

LYMPH VESSELS AND GLANDS

Reichert F L The Regeneration of the Lymphat ics Arch Surg 19 6 xm 871

By replantation of a dogs limb it was comparatively easy to follow the regeneration of both superficial and deep sets of lymphatics

Regeneration takes place as early as four days after operation. From a practical standpoint bis fact raises the question as to the possibility of regeneration of lymphatic channels between the first and second stages of the operation for carcinoma as performed by miny surgeons. The findings indicate that the primary growth in malignant conditions should be removed before or at the same time that the regional glandular dissection is done.

WILLIAM E SHACKLETON, M D

SURGICAL TECHNIQUE

OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Wilson W R Detorication in the Treatment of Burns Brit W J 10 7 1 54

Burns one most of their deadliness to toxximia Therefore detoxication is indicated in their treat ment. The first indication is to induce free exuda tion and the second to get the evudate away from the damaged surface. In four of five cases, which he reports the author used a hypertonic sodium chlo ride solution and glycerin

I FRANK DOUGHTY M D

Blair V P Repair of Defects Caused by Surgery and Radium in Concers of the Hand Mouth and Check im J Rocatecnol 1027 xvn 00

Following a loss of tissue from a heat hurn sur gical excision or mechanical injury a more or less acceptable repair can be made by first removing the scar or with proper precautions the granula tions down to normal tissue and then filling the defect with the most appropriate available tissue In planning the repair the surgeon must consider the appearance and function not only of the area to be repaired but also of the area from which the repair material will be taken. As nearly as possible, lost enithelium derma subcutaneous fat tendons and resisting fascia should be replaced with like tissues. Transplants of cartilage, bone, and possibly motor nerves may sometimes be indicated. Nonhair bearing skin is a good substitute for the oral and pharyngeal mucosa

The same rules apply to the restoration of areas destroyed or damaged by exposure to the rocntgen rays or radium but in practice an added difficulty may arise in these radiation burns and certain chemical burns. In the dehridement of these le sions after the elapse of several months there may be difficulty in determining whether unnecessary sacrifices are being made or tissue of doubtful vital ity is being left. Old irradiation burns that have been scarred over for several years are not es pecially bothersome in this respect. In attempts to clean up indolent raw or painful burnt areas that persist in spite of all forms of treatment and neither heal nor make a frank slough great difficulty may be encountered. In such cases it is better when practicable to remove too much tissue rather than too little If immediate repair is done it should be done with tissue of a vitality that can easily compensate for a possible lack of healing energy in the tissue upon which it is to be engrafted. A delay of from six to eight weeks before making the transfer of tissues from an irradiated area for an irradiation burn is better practice than the two or three weeks that is ordinarily allowed for other repairs. There may be some question as to the best manner of dealing with exposed necrotic bone that is still at tached As a rule it is not good practice to attempt to excise a dead part of a bone before it separates naturally On the other hand bone killed by ir radiation separates very slowly The application of a soldering from to kill the indolent area and multiple

drdling may burry the exfoliation

Carcinomatous changes in the irradiated tissues may further complicate the problem. As a rule the simple superficial epitheliomata will not require excision deeper than the subcutaneous fascia and the defect can be repaired immediately. It is usually best to include in the excision the entire area of damaged skin and immediately replace it with a pocket flap or a free skin graft rather than as has been the common custom to make a number of small local excisions and apply a Thiersch graft The neglected epitheliomata and the carcinomata will demand the same excisions or amputations with corresponding giandular excisions as similar cancers arising from any other cause ADDITION HARTING M D

ANÆSTHESIA

Mennell Z A Question on the Teaching of Ether Anresthesia with a Report of Four Deaths under Ether Proc Poy Soc Med Lond 19 7

Complete abdominal relaxation cannot be oh tained until the adductors of the vocal cords have been paralyz d It occurs with the earlier stages of dilation of the pupil Overstimulation for long periods results to fatigue a fall in the blood pres

sure and shock

There is a tendency toward a return to the usc of ehloroform as a routine anæsthetic. It is not true that the only difference between chloroform and ether is that the former causes death on the table and the latter causes it subsequently. Ether is not the only anæsthetic which causes postoperative deaths Deaths from ether sometimes occur on the table though not with the same suddenness as those caused by other anæsthetics

Four deaths following ether anæsthesia are re ported Microscopic examination of tissue from three of the patients showed dilatation of all minute vessels which means death due to bleeding in the tissues This may be produced in animals by in jecting with histamine Specimens from the fourth case showed that death was due to fat embolism or infarction

This condition usually occurs in bed ridden pa tients MURLE P HOON M D

Duncan, J W Personal Experience with Ethylene Gas in Surgical Anæsthesia Nebraska State

M J, 1926, vi 449

The author made a study of ethylene anesthesia in 164 cases. He found that ethylene gas induced anesthesia more easily and quickly than nitrous oxide and that, upon recovering consciousness from ethylene anesthesia, the patient did not have that feeling of impending catastrophe which so often follows the use of nitrous oxide. The average induction time was a little less than three minutes. After three hreaths, no disagreeable odor was recalled by the patient.

The relavation was not as complete as that ob tained with ether, but was much more complete than that obtained with nitrous oxide. Aside from operations in the abdomen, all surgical procedures

can be carried out under ethylene anasthesia with out the addition of ether. The patient's color practically always remains pink, and after the induction of anasthesia the pulse is slowed. Pulmonary lesions do not contra indicate the use of ethylene.

The author helieves that the objection urged against ethylene anæsthesia that it promotes hleed ing is not justified. Postoperative gas pains he attributes to the operative procedure rather than to the anesthetic used. The margin of safety of

ethylene is fully as great as that of ether and much greater than that of nitrous oxide

In conclusion Duncan warms against the use of an open flame or a cautery in the presence of ethylene Precutions against static spark should be taken by grounding the apparatus

Anthony I Sava, M D

PHYSICOCHEMICAL METHODS IN SURGERY

ROENTGENOLOGY

Lysholm E A Roentgenoscopic Apparatus for Cross Section and Localization (Roentgeno skopischer Modellierungsapparat Auch Fee Quer sektion und Lokalisation) Ada radiol 1926 vii

The author describes an apparatus by means of which during fluoroscopy it is possible to cut from a bulk of plastic material models representing the organs of the hody These models are true in shape as well as in size The construction of the apparatus allows the patient sitting in a chair to be turned around simultaneously with and through an equal number of degrees as the plastic material By screen examination from a distance of 2 meters or ortho diagraphically it is possible to record with a fead pencil as an indicator the different outlines appear ing on the screen The indicator is fixed to two arms which are movable at right angles to the rays and its elongation is formed of a curved metallic wire The string cuts sections out of the plastic material corresponding to the outlines on the screen The model is complete when the patient has made an entire rotation

By the help of a vertically movable indicator fixed to the modeling table the apparatus can be used also to obtain cross sections of different parts of the hody such as the beart it further lends itself to the focalization of lung abscess or foreign

orlies

Sievert R M. A Circulating Physical Department for Standardizing the Roentgen Radiation Used in Therapy Acta radial 1926 v 457

In the Physical Laboratory of Radiumhemmets Stockholm there is a Physical Measurement Department the members of which visit the roentgenwards throughout the country to investigate the roentgen apparatus and standardize the dosage This department has been functioning for six months and seems to meet a long felt need The investigation deals with the following factors.

1 The control accuracy and conomy of the apparatus (a) the consumption of current (b) variations of primary voltage and their influence on the total irradiation (c) the degree of fine regulation for voltage and militamperage (d) the reliability of the militampere neter (e) the reliability of the kilovolt meter (f) the filter (g) the presence of intensity of high frequency and (h) the durability and suitability of reentgen tubes

2 The factors which define irradiation and which should always be the same as far as possible For every filter and voltage used these are (a) the peak voltage (b) the voltage curve or roentgen spectrum and deep dosage (c) the milliampere and (d) the sonization power of the irradiation

In order to facilitate the compilation of statistics the author proposes that the standardization be extended not only to the dosage but also to several other factors

Wintz H Experiences with Deep Roentgen
Therapy in Urology Urol & Cutan Rev 1927
xxxx 9

Testment of the prostate gland and the bladder with the roattgen ray is difficult because of the mechanical factors involved. A large part of this article deals with the technique employed by the author to overcome those mechanical difficulties. Seventy or 86 per cent of the unit skin dose i used in being hypertrophy (adenoma) of the prostate while rio per cent is necessary in carcinoma of the prostate gland or bladder. The application of the dose of ito per cent requires a very exact concentration of the cones of rays from the different por tals of entry.

The presence of inflammation increases the radio sensitiveness. In pathological conditions in the prostate any inflammation of the rectum or blad der must he treated first. After their radiation care must be taken that no hard faces irritate the mucous membrane of the intestine and an abundant fluid intake must be provided to prevent irritation from a concentrated urine.

One of the complications subsequent to the treat ment is tenesmus. This appears from three to twelve days after the irradiation. The attack may be made

tolerable with helladonna

Since two irradiations of from 100 to 110 per cent of the skin unit does is generally necessary in car canoma of the bladder an induration ordems is a frequent complication. The loose tis use of the space of Retrius is especially predisposed to this reaction. This induration is fairly harmless of itself but when the disastegrating tumor of the bladder becomes the sto of infection the danger of a widespread cellulation of the properties of t

In many cases of carcinoma of the hladder Wintz combines coppering with roentgen treatment. The principle consists in distributing particles of copper and copper salts in the tumor and the surrounding tassies by means of electrolysis and cataphoresis from a 3 per cent copper sclenium solution in the bladder. The saturation of the tissues with copper increases the diffusion of the radiation and increases the strength of the dose about 15 per cent of the slin unit dose.

No results are given for cases of carcinoma, hut sixty eight of eighty seven patients with prostatic adenomata were completely free from symptoms one year after the treatment

CHARLES H HEACOCK M D

Halberstaedter, L., and Simons A. An Experimental Contribution on the Postoperative Iradiation of Malignant Tumors as Regards Wound Healing and the Prevention of Local Recurrence (Experimenteller Bettag zur post operativen Strahlenbehandlung boesartiger Geschwielste Insischlich Wundheulung und Verbie

tung certlicher Rezidive) Acta radiol 1926 v 501 In several cases in which large open ulcers were left by the removal of carcinomatous masses by diathermy, one half of each ulcer was irradiated while the other half was protected by lead

Although healing in the irradiated area was some what delayed, the resulting scar in this area was usually better than that in the part not irradiated

In one case, after the lapse of a month foci of recurrence appeared in the part not irradiated, whereas the irradiated part remained entirely free from them

Colwell H A and Thomson, M S On Some Effects of Primary and Secondary Roentgen Rays upon the Skin of the Frog Tadpole Am J Roenignol 1927, xvii, z

Exposure of tadpoles in ordinary water to primary roentigen rays for one and one half hours caused temporary hyperplastic changes in the epithelium with a certain amount of syncy tium formation. The maximum hyperplastic changes were noted from twenty four to eighty four hours after irradiation. Later, atrophy occurred Prolonging the time of exposure shortened the period of hyperplasia and caused the degenerative changes to appear more early and to become more pronounced.

The effects of secondary roentgen rays were studied by radiating the tadpole after the colloidal preparation of the heavy metals had been added to

the water The metals used were

Elements	Atomic Number	Atomic Weight
Copper	20	63 5
Selemum	34	79 2
Silver	47	108 o
Gold	79	197 2
Lead	82	207 0
Bismuth	83	200 0

Ten, 5, and 1 per cent mixtures of a 1 2000 colloidal preparation of the six elements were used Gold in the 10 per cent solution proved too toxic

The most striking feature in these experiments was the high degree of hyperplastic change following the irradiation in the presence of colloidal silver and the length of time the condition persisted. The least hyperplasia was seen with the use of copper. Selenium holds an intermediate position between copper and silver. With lead and bismuth, slight hyperplasia occurred, but degenerative changes were most

prominent In view of the very marked effects produced by silver, and to a less extent by gold, it seems probable that some particular ringe of wave length is responsible for the marked hypertrophic changes

RADIUM

Failia, G The Development of Filtered Radon Implants Am J Roenigenol 19 6 xv1 507

Faila reviews the development of filtered radon implants from the bulky raduum applicators in serted into tumor masses by Abbe and others in 1906 and capillary glass tubes containing radon which were used in hollow metallic needles by Stevenson, to the 5°, 10° and 12 5° mgm radium needles and the suggestion of Duane that 'bare seeds be inserted and left permanently in the

Because of the zone of complete necrosis developing about glass implants with a resulting slough and painful reaction, filtration of the radon implants was attempted. The success of Regaud with prolonged applications of filtered small content needles encouraged the search for filtered implants. Halherstadter's method of employing thorium X is

described

It soon became evident that the radon must be collected directly into the metal. Gold was the metal eventually selected. The technique is de scribed. After extensive physical and hiological tests it was found that gold implants with a wall o 2 mm thick gave most promise of success. Extensive data obtained from ionization chamber readings fresh butter decoloration tests, rabbit muscle necrosis experiments made by Cutler, and the practical clinical use of bare seeds are recorded in tables, curves are plotted and extensive comparisons are made.

By comparing the clinical results obtained with glass 'seeds' with the experimental data obtained with the use of gold implants it was finally determined that 3.3 mc gold implants with walls 0.2 mm thick would be equivalent to 1 0 mc glass "seeds"

The author draws the following conclusions

r Gold implants with a wall thickness of o 2 mm remove 99 per cent of the beta rays and are suitable for intratumoral irradiation

2 Since I cm bare 'seeds' have been in common clinical use, I me gold implants with a wall thick ness of 0 2 or 0 3 mm should be substituted for the I o me glass 'seeds' in the transition from glass to gold

3 The gold implants produce but 50 per cent of the necrosis caused by the glass implants More over, the necrosis caused by gold implants is partial, while that produced by the glass filter is complete. This difference in the type of necrosis probably accounts for the absence of slough and the fact that the pain is much less severe in the use of gold implants.
A JAMES LARKIN, M D Allen E V Bowing H H and Rowntree L G
The Use of Radium in Internal Medicine
Further Experiences J Am W Ass 1927

Although the internal administration of radium has fallen into disuse the authors have been in vestigating its value in the treatment of certain diseases and for the relief of pain. In a dosage up to comicrograms there were no toxic manifestations

so micrograms there were no touc manifestations. Radium chloride was given thirty seven times to twenty two patients suffering from hypertension which in five was graded as mahgiant and in seventeen as beingin. The dosage varied from 10 to 50 micrograms. Care was taken to establish the resting level of the blood pressure by having the patient remain in bed without medicine for three days. The results were compared with those following the use of luminal sodium nitrite and "hyper tensive boths. The luminal and intrite were given in xi doses of 1/2 gr each. The hypertensive bath consisted of immersion for from five to fifteen min utes in water at a temperature of 105 degrees.

The most striking result evident in the tables of blood pressure was the response to rest. The effect of radium chloride on the blood pressure was neither more marked nor more lasting than that of luminal or mitnte. In only two cases were the results more than temporary

The drug was administered for the relief of pain thirty mine times in twenty eight cases of various types in doses varying from to to so micrograms. The most striking effect was produced on the severa of usually intractable pain of thrombo anguits obliterans. In severa of the twelve cases there was reduced to the severa of the twelve cases there was reduced to the severa of the twelve cases there was reduced to the several obliterans. In several the twelve cases there was reduced to the several obliterans. In the first own to response. The effect on diabetic neuritis was come to the several transfer of the method. The authors do not recommend its use in cases of thrombo anguits obbiterans because non specific vaccines yield even greater refler.

MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Rabinowltch I M Dlabetic Gangrene Canadian M Ass J 1927, XVII 27

Rabinovitch gives a statistical study of 1,016 cases observed in the diabetes chinic of the Montreal General Hospital Gangrene was found in thirty-six (3 5 per cent) Though this may appear to be small percentage, gangrene has become one of the chief contributory causes of death in diabetes. The death rate from diabetes has decreased in hospital treated cases, but the incidence of gangrene has not decreased and has accounted for a very large per centage of the total mortality. This is due to the fact that other conditions formerly contributing to the death rate such as surgical complications coma, etc. are now fairly well controlled with insulin

The incidence of gangrene increases with age. In the experience of the Montreal General Hospital, about 25 per cent of diabetics past the age of 70 years develop gangrene. In Joslin's experience one in every five persons developing diabetes after the age of 70 years also develops gangrene. The readiness with which gangrene develops appears to be related more closely to the period of life at which the diabetes develops than to the duration of the disease itself. It was noted that when the disease developed between the ages of 30 and 40 years the average time before gangrene occurred was nine and three tenths years, whereas when the disease de veloped after the age of 70 years, the average time before gangrene occurred was less than one year

The association of syphilis and diabetic gangrene is discussed A statistical study showed that the incidence of syphilis was five times as great in diabetics with gangrene as in those with no gangrene. The discovery of a luetic infection may be of value not only in the prophylaxis and treatment of gangrene, but also in the correct interpretation of the slow healing of wounds following amputations.

Blood cholesterol studies showed that though the cholesterol content of the blood is increased in diabetes the average percentages found in diabetes with gangrene are of a still greater magnitude Dietary indiscretions result in a high cholesterol content

As is well known, diabetics are very liable to scatica Pain extending to the toes, coming on suddenly, and at times causing limping should arouse suspicion. Cases with this symptom should not be dismissed with the diagnosis of scatica? or "diabetic neuritis and the suggestion to the patient that if the diet is followed the pain will probably cease. A special inquiry should be made as to whether attacks of pallor or blusher red dis

coloration occur in the limb Such attacks suggest gangrene especially if the foot is at times pale and cold and at other times congested. The diagnosis of early gangrene is reasonable if the pulse in the posterior tibal artery is obliterated, and is almost certain in the absence of pulsation in the popliteal artery.

In the treatment of early gangrene, rest with dietary and insulin treatment, Buerger's exercise hot and cold baths alternately, radiotherapy, and decortication of blood vessels have all been tried with strikingly good results but also with failures Cases of gangrene beyond the stage of recovery may generally he divided into those which unquestion ably demand immediate operation and those in which delay may be possible. For the typically foul and infected case with septicæmia, immediate removal of the limb appears to be the only course open It is the other type of case that presents the greater problem Though amputation of the limb is the eventual form of treatment, this may be postponed if other conditions which tend to increase the surgical risk are also present. Proper dietary measures and insulin treatment before operation may do much to improve the postoperative course A most important consideration bowever, is the influence of the gangrene on the progress of the diabetes If, in spite of the local condition, the urine can be kept sugar free and the blood sugar normal, the operation may be safely postponed until the surgeon believes that the risk is minimal How ever, if the diabetes cannot be controlled, immediate operation is the best course

JACOB S GROVE M D

Schreiner B F A Summary of the Methods and Results of the Trentment of Cancer, Based on a Study of 3 246 Casex Admitted Between May 1914 and May, 1925 Acta radiol 1926 vn 419

This report is based upon 3,246 cases of malignancy treated at the State Institute for the Study of Malignant Disease Buffalo, New York in the period from May 1914, to May, 1925. The cases are grouped according to the type of lesion as follows:

Condition	No of Cases
Fpithelioma (basal cell)	425
Epithelioma of lip	16
Epithelioma of penis	37
Epithelioma of vulva and clitoris	31
Fpitheborna of oral cavity	375
Lpithelioma of antrum of Highmore	46
Adamantinoma	.8
Epithelioma of larynx	65
Lpithelioma of ersophagus	54

No of Cases

Epithelioma branchiogenic Enthelioma of vagina 33 Epithelioma of cervix 510 Adenocarcinoma of cervical canal τá Adenocarcinoma fundus of uterus 56 32 Ovarian tumors Cancer of rectum and anal ring 18A Fpithelioma of bladder 65 Carcinoma of prostate 75 Carcinoma of thyroid 14 Carcinoma of storiach 0o Carcinoma of breast 531 Kidney tumors 17 Mixed tumors and endotheliomata 4I Testicular sarcoma 46 Hodgkin's disease Leukæmia 25 76 Round cell sarcoma Sarçoma (spindle cell etc.) 1 7 Melanotic sarcoma

The cases were carefully classified clinically into two groups-those in which the disease was still local and those in which there were regional or

disseminated metastases

Tumors of the skin and protective membranes were divided into three groups namely basal cell epitheliomata pearl forming or prickle cell epithe homata, and epithehomata originating from the

mucous membranes

Basal cell enithelioma of the skin was treated entirely by irradiation Primary healing resulted in 95 per cent of the cases and healing which lasted for from one to six years in about 75 per cent

In the cases of epithelioma of the lip a clinical cure lasting for more than three years was obtained in 78 per cent of the cases of Group r in which the tumor was confined to the lip and in to per cent of those of Group 2 in which there were regional metastases but the lesion was still movable. In the cases of Group 3 those of far advanced tumors of the lip with involvement of the lymph nodes and periosteum no clinical cures were obtained

Of thirteen early cases of epithelioma of the penis without demonstrable metastases a clinical cure lasting from two to ten years was obtained in seven Of twenty four cases with small metastases in the

inguinal nodes a clinical cure lasting for from one to seven years was obtained in four

In cases of epithelioma of the vulva and chtoris treated by coagulation and the implantation of radium a clinical cure lasting up to two and a half

years was obtained in four

Of 375 cases of cancer of the oral cavity which were treated by the implantation of radium cmana tion and the use of high voltage A rays a chinical cure lasting up to eight years was obtained in from 6 to 50 per cent depending upon the situation of the primary lesion and the absence of demonstrable metastases in the lymph nodes Of 235 cases in which the lymph nodes were involved a cure lasting up to four years was obtained in ten

Of twenty three early cases of epithehoma of the antrum of Highmore in which the disease was still local clinical healing for periods ranging from one to eight years was obtained in five In twenty three far advanced cases with metastases only palliation was obtained

Of eight patients treated for adamantinoma four have been clinically well for periods up to seven and

In all but one of the cases of tumors of the lary nx. esophagus and branchiogenic remains only pallia tion lasting for from six to eight months was obtained In the one exception a case of epithelioma of the laryny, the palliation has lasted for four years

Four of eight patients treated for early epithelioma of the vaging and two of twenty five with far ad

vanced vaginal epithelioma have been clinically well for periods up to three years

Of the cases of epithelioma of the cervix, clinical healing was obtained in 93 per cent of those of Group 1 56 per cent of those of Group 2 and 27 per cent of those of Group 3 In the e of Group 4 palliation lasting for from six months to four years was

Of seven cases of early adenocarcinoma of the cervical canal clinical healing for periods ranging

up to four years was obtained in four In the more

advanced cases only pallition resulted Cancer of the fundus of the uterus was clinically cured for periods ranging up to three and a half years in about 75 per cent of the operable cases In cases of recurrence following incomplete opera tion or due to technical difficulties at the time of operation the treatment yielded a clinical bealing lasting up to three years in about 32 per cent of the cases In the moperable cases only palliation lasting for from six months to three years was obtained

In the thirty two far advanced cases of cancer of the ovary no clinical healing was obtained but in several there was palliation lasting up to two and a half years

Of the 184 cases of cancer of the rectum and anal ring healing for from eight months to four years

was obtained in eleven

In the sixty five cases of cancer of the bladder an absolute clinical cure lasting for more than two years was obtained in only one but in the others the treat ment resulted in palliation

In carcinoma of the prostate only palliation was

Of fourteen ca es of cancer of the thyroid pallia tion lasting for three and five years respectively was

ohtained in two In moperable cancer of the stomach palliation lasting for from six months to two years and four

months was obtained

In carly cancer of the breast the treatment of choice at the present time is operation followed by divided doses of high voltage roentgen rays

In the cases of mixed embryonic tumors of the Lidney the results were unfavorable but in two cases of bypernephroma palliation lasting for two and three years was obtained One patient treated for adenocarcinoma of the kidney recurring after opera tion was clinically cured for almost two years by the use of high voltage \ rays

Of the forty one patients treated for endothehoma and mixed tumor, eleven have been clinically well for periods ranging from six months to five years

Of twenty two patients with testicular sarcoma, two have been clinically well for a year following surgery and irradiation and three have had pallia tion for two years

No cases of Hodgkin's disease have been cured, hut palliation has been obtained in all of the forty six cases and in one instance this has persisted for

In myelogenous and lymphatic leukæmia, irradia tion has proved very satisfactory in bringing about remissions, but the palliation has been of relatively

short duration

Irradiation and arsenic medication yielded ap parently a clinical cure lasting for periods up to six and a half years in thirteen of thirty eight cases of round cell sarcoma in which the disease was local or has formed only regional metastases In the further advanced cases—cases of so called sarcomatosis only palliation was obtained

In sarcoma of the grant cell, spindle cell, and melanotic types, irradiation has proved of great

GENERAL BACTERIAL, PROTOZOAN, AND PARASITIC INFECTIONS

Ashhurst, A P C The Prognosis of Tetanus J Am If Ass 1926 lxxxvii 2089

Ashhurst is a firm heliever in the efficacy of intraspinal injections of tetanus antitoxin if they are given early Antitoxin given intraspinally has a specific action on the toxin already in the spinal nerve roots and in the spinal cord. In experiments on rabbits it was found that intraspinal subaracbnoid injections of a solution of methylene blue resulted in a staining of the cord and the base of the hrain as far as the anterior ends of the optic tracts and even stained the cerebrum in patches. There fore it is reasonable to suppose that tetanus anti toxin injected into the lumbar subdural space will reach all parts of the spinal cord

Recoveries from tetanus without the administra tion of antitoxin by the spinal route are exceedingly few Deaths occurring when this treatment is given promptly are also very few Therefore to refuse to employ antitovin by the intraspinal route is un justifiable The diagnosis of tetanus must be made early and the treatment must be very prompt

The aims of treatment should be (r) to prevent the further absorption of toxin by abolishing its source the infected wound (2) to neutralize the toxin which is being absorbed by the immediate administration of from 15,000 to 20,000 units of antitoxin intravenously (3) to neutralize that which has been absorbed into the spinal cord by the immediate intraspinal injection of from 6,000 to 10,000 units, (4) to administer enough spinal depressants, preferably chloral and bromides by mouth and hy rectum, to evert a physiological effect, and (s) to keep the patient alive hy feeding and nursing All of the antitoxin needed should he given as nearly as possible at one time and as soon after the diagnosis is made as possible. In most cases repeated doses of antitovin are a waste of a valuable and very ex ANTHONY F SAVI M D pensive remedy

Serigos E Proximal Hydatid Intradermal Reac tion A New Method of Obtaining More Sen sitive Reactions (Intradermorreaction hidatica proximal nueva procedimiento que permite obtener reactiones más sensibles) Semana med, 19 6,

In a case of hydatid of the liver, the author hy chance made an intradermal injection immediately over the cyst and obtained a very intense reaction He therefore tested to see whether the reaction is constantly more intense near the cyst He found that when two injections were made there was al ways a more intense reaction at the site of the proximal injection than at that of the distal injection He made the proximal injection over the cyst and the distal one on the inner surface of the thigh or on the forearm The distal reaction may he entirely negative and the proximal reaction positive The cyst may he located by inspection or by percussion and roentgen examination

A cyst of the lung may be localized approximately hy making an anterior, a posterior, and a lateral injection and judging the nearness of the cyst from the intensity of the reactions A similar method may be used for cysts of the hrain, one injection heing made in the mastoid region and one in the forehead. A negative reaction with the injections made at the usual sites is very persi tent in hydatid cyst of the central nervous system

AUDREY G MORGAN M D

EXPERIMENTAL SURGERY

Haden R L Lesions in Rabbits Following the Intravenous Injection of Bacteria from Chronic Pernapical Dental Infection Am J M Sc 10 6

Haden reports a study of the lesions in r soo rabbits following the intravenous injection of bacteria from chronic dental infections

Joint involvement occurred in 865 animals This consisted in distention of the joint capsule by puru lent fluid or multiple hamorrhages in the synovial

membrane and joint capsule Kidney lesions occurred in 453 animals The most common condition was pyelonephritis. Multiple cortical abscesses acute hæmorrhagic nephritis, sub acute parenchymatous nephritis hamorrhage into

the medulla, and permephric abscess were also Gross muscle involvement was noted in 315

animals The lesions appeared as small white streaks

These were most distinct in recently killed animals and most common in the muscles of the extremities Sections showed necrosis of the mu cle fibers with out marked cellular infiltration. Gro s hamorrhages

into the muscles were occasionally seen Heart lesions occurred in 353 animals valvular lesions were almost entirely vegetations The myocardial lesions consisted of discrete hæmor rhages or short white streaks of necrosis Often there was an excess of pericardial fluid Occasionally

purplent pericarditis was found Lesions of the stomach or duodenum were found in 234 cases. The stomach lesions nearly always showed hemorrhage with ulceration or erosion. The hamorrhage in the duodenum was not associated

with ulceration Gross eye lesions occurred in 204 cases The most common lesion was an iritis or an iridocyclitis Multiple hamorrhages in the iris limbus and sclera cloudy fluid in the anterior chamber and cloudy corner also occurred Pericorneal injection often developed a few hours after the moculation

Sixty two animals showed gross brain lesions The most common condition was a basilar meningitis Occasionally multiple cortical abscesses were seen In rare instances hamorrhages were found in the cord or sciatic nerve

Acute splenic tumor was common Occasionally a splenic infarct was found. Acute cholecystitis was observed in one animal Teno ynovitis lymph adentis onychia thyroiditis hæmorrhagic colitis and hamorrhages into the skin were also seen

This incidence of lesions in animals after the intra venous injection of hacteria agrees quite closely with the lessons due to chronic focal infection observed in

Organisms recovered from roentgenographically negative teeth were found to be as pathogenic as cultures taken from roentgenographically positive

SAMUEL KAHN M D

BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

SURGERY OF THE HEAD AND NECK

Head

A clinical and experimental contribution upon blunt trauma of the skull L SCHOUNBAUER Bestr z klin Chir, ro26 CTXXVII 611

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